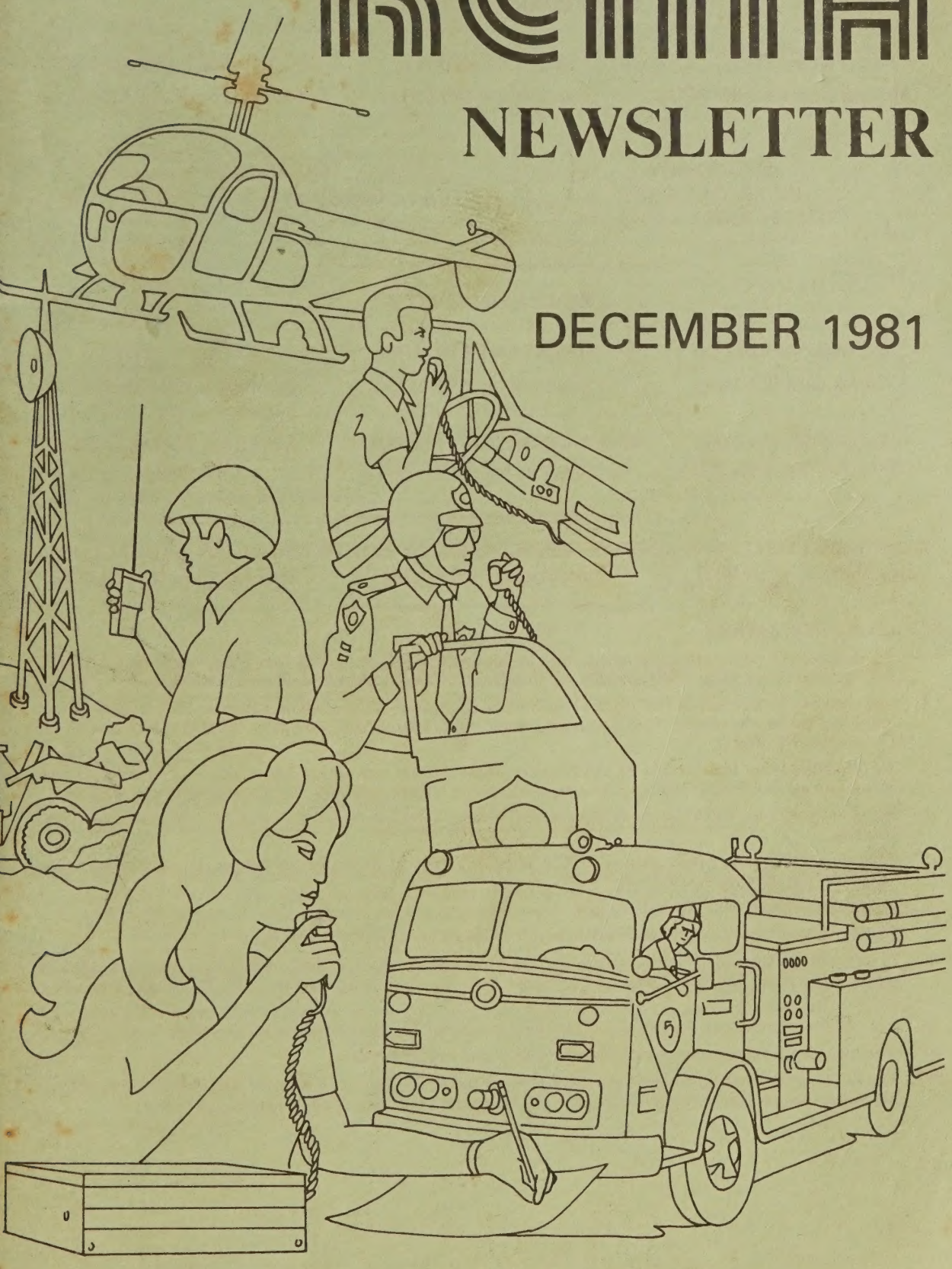
RCMA

NEWSLETTER



DECEMBER 1981

FIRST NATIONAL AND INTERNATIONAL ORGANIZATION
OF MONITOR RADIO LISTENERS

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RCMA NEWSLETTER

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FOR YOUR INFORMATION:

1. All club business, unless otherwise noted, must be addressed to R.C.M.A., P.O. Box 4563, Anaheim, CA 92803. This includes matters that relate to renewals, changes of address, newsletter delivery problems, etc.
2. Input to the RCMA Newsletter must be mailed to the proper editors, whose addresses are included in the individual column headlines. If no particular column seems appropriate, send input to RCMA, P.O. Box 1119, Flemington, NJ 08822.
3. To forward a letter to a specific RCMA member whose address you do not know, put your message to that person in a stamped envelope with your return address on it; mail to RCMA, P.O. Box 408, Earp, CA 92242.
4. Please include your RCMA membership number with all correspondence to newsletter editors or club headquarters.
5. If you require a reply when writing to RCMA headquarters or to one of the editors, you MUST enclose a self-addressed, stamped envelope.
6. Please write on only one side of the paper.
7. Please don't combine in one letter several items that should go to different addresses.
8. If you want to type what you submit to the newsletter, please don't exceed a seven-inch column width and please single space. Doing this may save an editor from having to retype the material. Please don't use script type.
9. Your RCMA membership number and expiration date appear on your newsletter mailing label.
10. You may join or renew your membership for ONLY one year at a time.
11. The RCMA Newsletter accepts paid advertising. If you would like to place a paid ad, please write to the following address for our advertising guidelines: RCMA Newsletter, P.O. Box 4563, Anaheim, CA 92803.

RCMA NEWSLETTER
Issue 69 December 1981

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NEW NEWSLETTER EDITORIAL ADDRESS:

P.O. Box 1119
Flemington, NJ 08822

The RCMA Newsletter is published monthly by members of the RADIO COMMUNICATIONS MONITORING ASSOCIATION, P.O. Box 4563, Anaheim, CA 92803. Subscription rate/membership fee is $12.00 for U.S. residents. For persons in other countries, the following rates apply: Canada and Mexico—$13.50; Europe—$14.50, South Pacific and Asia—$15.00. These dues are payable in U.S. funds and are subject to change. Information contained herein is obtained primarily from members and does not necessarily present the position or reflect the opinion of RCMA as a whole. The RCMA Newsletter editors and officers are not responsible for the accuracy or validity of information contained herein. RCMA does not necessarily recommend or endorse products or services advertised herein. The publication is copyrighted ©. Reproduction of any material in this newsletter is prohibited without prior written consent.

** Calendar **

Send notices of upcoming events for the Calandar section to John Clark, RCMA, P.O. Box 4563, Anaheim, CA 92803. Please send notices well in advance of the Newsletter deadline.

The R.C.M.A. supports scanning and scanner clubs. If your local R.C.M.A. scanner group is having a meeting, or if you are another radio club planning a meeting, send an announcement to the Calendar Editor and it will be sent to all members of R.C.M.A. Because of individual member requests and previous problems, the Board does not feel that sectional mailing lists should be distributed.

Greater L.A. Area R.C.M.A.

Board meetings are open to all members of R.C.M.A. They start at 7:30 PM. Now that we have separated labeling of the newsletter, the meetings will be devoted to R.C.M.A. policy and, of course, the latest scanner activities.

R.C.M.A. Working Sessions have been scheduled for the first Tuesday evening of each month. Any member of R.C.M.A. or visitor is welcome to attend and/or assist in the suffeling of papers and attempts to ascertain what went wrong with member X's subscription.

Dec 1 TUESDAY 7:30pm Anaheim Branch Library, 1349 S. Euclid

Greater L.A. Area R.C.M.A. meetings David A. Heywood CALA001 Presiding

November 20 FRIDAY L. A. Area Meeting: Mercury Savings and Loan, Valley View and Lincoln Avenue, Buena Park, Ca. 8:00 PM
Scanning and the news media. Personalities from local radio and newspapers will be present.

December 18 FRIDAY L. A. Area Meeting: Mercury Savings and Loan, Valley View and Lincoln Avenue, Buena Park, Ca. 8:00 PM
Emergency Disaster Radio will be the topic of discussion.

January 15 FRIDAY L. A. Area Meeting: Mercury Savings and Loan, Valley View and Lincoln Avenue, Buena Park, Ca. 8:00 PM
Special police communications meeting. Details to follow.

********** ELECTION RESULTS **********

The new R.C.M.A. elected officers are:

President	Michael Redman	MO 002
Vice President	Larry Smith	MI 001
Vice President	Joe Freezon	CALA031

NEWSLETTER DEADLINES:

*** please note the newsletter deadlines refer to the month the newsletter is to be mailed. Not the date on the cover. Information submitted by October 4 will be mailed to members in November. The November mailing carries a December cover date to assist USPS in their speedy delivery.

December 7 MONDAY Newsletter deadline for "January" mailing.

Calendar continued

1982

January	4	MONDAY Newsletter deadline for "February" mailing.
February	8	MONDAY Newsletter deadline for "March" mailing.
March	8	MONDAY Newsletter deadline for "April" mailing.
April	5	MONDAY Newsletter deadline for "May" mailing.
May	10	MONDAY Newsletter deadline for "June" mailing.
June	7	MONDAY Newsletter deadline for "July" mailing.
July	5	MONDAY Newsletter deadline for "August" mailing.
August	9	MONDAY Newsletter deadline for "September" mailing.
September	6	MONDAY Newsletter deadline for "October" mailing.
October	4	MONDAY Newsletter deadline for "November" mailing.
November	8	MONDAY Newsletter deadline for "December" mailing.
December	6	MONDAY Newsletter deadline for "January" mailing.

NEED BACK ISSUES?

Back issues are again available for sale to members in the lots indicated below. Please note that the RCMA Newsletter is a club newsletter. Because it reflects the growth of RCMA, early issues do not contain as many articles as do the current ones. The Newsletter has evolved from a few mimeo pages to its present format under the leadership of three great editors---Don Jones, Iden Rogers, and Chuck Gysi---and the contributions of club members.

The reproduction of the articles is quite readable. To cut costs and allow the possibility of binding all the reprints in a notebook, the format of later newsletters has been changed from saddle stitch to edge binding. This has changed the page order presentation, but not the content of the articles or the frequency lists.

To order: Using the information given below, send your requests to R.C.M.A., Bill Ell, Secretary, 2831 Hermanos St., Pasadena, CA 91107. Be sure to include your name, address, RCMA membership number (it is on your label), and your check or money order payable to R.C.M.A.

PRICES VALID UNTIL JANUARY 1982

Lots (Months/Year)	No. of Issues	Price
Sept 75 – June/July 76 (No Oct or Nov published)	7	$ 2.00
Aug – Dec 76 (No Oct published)	4	$ 3.00
Jan – June 77	6	$ 4.00
July – Dec 77	6	$ 4.00
Jan – June 78	6	$ 5.00
July – Dec 78	6	$ 5.00
Jan – June 79	6	$ 6.00
July – Dec 79	6	$ 6.00

********* 1980-81 R.C.M.A. Newsletter back issues are now available.

Price $1.50 per copy

Orders should be sent to:

R.C.M.A.
Bill Ell, Secretary
2831 Hermanos Street
Pasadena, Ca 91107

Reports of Meetings and Officers

Send reports (informal accounts) of RCMA meetings, gatherings, etc. which have occured to: John Clark, RCMA, P.O. Box 4563, Anaheim, CA 92803.

R. C. M. A. Greater L.A. area meeting 16 Oct 81.

An earth station satellite receiver station was demonstrated at the meeting. The antenna system arrived at 7:45 PM and was constructed and on the air at the 8:00 PM meeting time. During the demonstration five satellites were picked up. Capt James Matheson and Mr Gay Hamilton conducted the demonistration and answered questions from the group. While many of the channels demonstrated were the standard broadcast variety, the satellites are now used for conferencing, and that type of comminitation is within the scope of RCMA.

THOUGHT waves

Chuck Gysi, Managing Editor, P.O. Box 1119, Flemington, NJ 08822

Some of you have been wondering what happened to my columns last month. No, it wasn't the Postal Service eating the copy in the mail again. It was a combined case of office OT and a major newsletter project that is in the works.

The RCMA Newsletter is about to get an overhaul. We'll (me, the new board of directors and the editors) will be taking a good look at what the newsletter is doing and what we should be doing. But, you the members won't be left out either. Is there something in particular that you like or don't like about our monthly publication? If so, I'd like to hear your comments. Is there something you'd like to see us doing that we aren't currently? Drop me a line to the above address and let me know. I may not be able to respond to all your letters, but do let me know your thoughts.

Anyway, with the great undertaking in gear, I must reluctantly remove myself from the Business, Etc. column. I know many members said a long time ago that I wouldn't be able to wear the extra hat but my love of business frequencies kept me going.

I began writing for the RCMA Newsletter in the August 1979 issue as the mid-Atlantic regional editor for public safety. Later, as Iden Rogers restructured the newsletter, I began editing the Business, Etc. column with the October 1979 issue (although it was called The Other Column for a month).

I have decided to relinquish my duties as the Business, Etc. editor so I can devote more of my energy and ideas toward newsletter development. If you are interested in the position, please let me know as soon as possible to that a new editor can be picked. The qualifications are listed under the Business, Etc. column heading in this issue. My thanks to all those who were frequent contributors and helped with the column. I hope you will support the new editor as well. Anyone who has forwarded business information and frequencies to me: I will send them all along to the new editor.

Apparently there may be some confusion as to where to send mail to RCMA. If you wish to send in your dues, have newsletter delivery problems, wish to contact the board of directors, or need

to know general information about the club, write to:

RCMA
P.O. Box 4563
Anaheim, CA 92803

If you wish to contact me, are interested in becoming an editor of a column, or don't know which column editor you should send something to, write to:

RCMA
P.O. Box 1119
Flemington, NJ 08822

If you send a renewal check to me or send news to the Anaheim HQ, it only delays receipt of the item. So be sure you indicate the correct address.

Grove Enterprises Inc. (Robert Grove, president, and RCMA Federal Government column editor) has just released its new 20-page catalog of communications accessories and publications. Some of the new products listed in the catalog include a frequency-selective antenna tuner for 10kHz to 30MHz, a scrambled speech decoder with an adjustable deep-notch tone interference filter, a dual scanner coupler and a 30 to 960 MHz table-top active antenna/preamplifier. For a free copy, write to Grove Enterprises Inc., Dept. F, Brasstown, NC 28902, or call toll-free (800) 438-8155.

Another catalog worth sending away for is from Dever Communications. Bill Dever (AR-001) apparently has gone into business selling Regency and Bearcat scanners, crystals and directories. He has some very good prices on gear. You can write to him at: Dever Communications, Route 2 - Box 277, Hot Springs, AR 71901.

Tom Kneitel (NY-154), editor of S9 Magazine, has come out with new editions of his "Air Scan" and "Top Secret Registry of U.S. Government Radio Frequencies" directories. Reviews on both publications will be in next month's newsletter.

YOUR THOUGHTS

To the editor:

I would like to comment on the Monitor Control ad on the inside back cover of the September 1981 newsletter.

As with all of us, I'm excited about the entry of the Bearcat 100 into the market, but why do members have to send $1 to the advertiser for information? The manufacturer has sent the same for free.

Al Leder (NJ-084)
Paterson, New Jersey

Aircraft

Major Ron Hammer, Editor

Send private, commercial, firefighting, and law enforcement aircraft frequencies of interest in the 108–136 MHz range and frequencies in other bands above 30 MHz associated with airports and aircraft, plus questions, articles, and tips related to aircraft monitoring to: Major Ron Hammer, 821 Elisa Way, Roseville, CA 95678.

Hey guys! I perceive that the readership of this column is increasing if not by leaps, at least by bounds. I will continue to try to acknowledge or answer all mail, but I can see that we are rapidly reaching the point that I can't handle it all. The increase in readership also puts more pressure on me to write a better and more accurate column,as when mistakes are made--a whole swarm of people note it. Part of the price of fame, I guess. (Ha)

I get mail from things that have appeared in other radio publications that have brought the RCMA to someone's attention,such as Bob Rode from Sauk Village, IL. I appreciated Bob's letter as he was also an Air Force GCI radar operator in his early days. I am becoming limited, however, as to how many personal letters I can answer and how many Newsletters I can mail out @ 59¢ for book-rate postage. I am not asking for sympathy, only a little understanding. The RCMA does not furnish me with anything, so please forgive if your letter should not be answered promptly--or not at all. Sometimes my job just gets in the way of my hobbies. That's a shame, but it's the ol' job that buys my toys, not the column.

Al Earnhardt SC-006 of Sumter, SC is one of many responding to my plea for more information on aircraft mobile telephone freqs. Al is a two-way radio and mobile telephone technician for the telephone company. He sends a Motorola/FCC radio channel list and some pages from the FCC's part 87 covering rules for Airborne Stations, Aeronautical Advisory Stations, Aeronautical Multicom Stations, Aeronautical Enroute Stations, Airdrome Control Stations, Aeronautical Utility Mobile and Civil Air Patrol Stations, to name just a few of the aircraft related subjects. If you really want to know who is allowed to use what frequency for what purpose try to get a copy of this regulation. I had no idea that there were so many categories with so many governing rules!

James Zuchelli CAST-001 of nearby Modesto was the first to point out my mistake in saying Bearcat makes no hand-held aircraft band monitor radios. Yes, of course they do--one of their "Thin-Scan" series. I'm not quite sure now just what it was that I had set out to say back when that was written last July. To my knowledge, Bearcat does not produce any UHF aircraft-band capable receiver, either handheld or otherwise. They do not offer a non-crystal handheld with any aircraft capability, either. Their new synthesized handheld scanner has the usual range of bands--most everything but aircraft bands--due, I suppose, to the two usual reasons: a) There is no interest in these bands, and/or b) some branch of the government doesn't want us little spys listening to these "secret" bands--especially the "military" UHF. Perhaps our ever-wise friends in the marketing departments at Electra and Regency will one day be playing a game of catch-up. I see on p. 53 of the October, 1981 RCMA Newsletter an ad for a 385-470 MHz scanner! I have written them for details. The address is RMA ELECTRONICS, 96 RICHARDSON ROAD, CHELMSFORD,MA 01863. If anyone has any data on this equipment--good or bad--please write to me immediately! I have not yet got their catalog, but they seem to offer a number of interesting items. Write'em and see.

John P. Breen PA-066 of Pittsburgh also pointed out the error of my mis-statement. He even sent me the hang-tag from his Thin-Scan Aircraft receiver. One of the worst things about such a column as this is the five or more month delay between the time I write something, it is printed, I get a response (good or bad), I write a correction or whatever (a rebuttal, perhaps) and it is printed. A newspaper writer can often respond the next day--it takes almost half a year via this medium. I really am sorry for that. Anyway, John says he bought his Thin-Scan new in a discount store for $39.00! (More about that, later.) John also sends a copy of a lengthy letter he recently wrote to the Electra Company beseeching them to produce what he calls a "Pro-grade" scanner for around $1,200 to $1,500 with a whole list of goodies on it. John's point is well made that the short wave listening (SWL'ing) hobby has a choice of a number of high-grade HF band receivers that run on up into the big bucks. There are a lot of poor people in this country. A lot of the readers of this Newsletter--especially some of the young kids--would find it hard to scrape up $15 let alone $1,500 or more. When the full impact of President Reagan's budget cuts hit home, there are going to be a whole lot more folks in a real trick. I was pretty poor as a kid (but didn't know it). My wife was poor, too, but she knew it. It's a tough way to spend one's few alotted days on this earth. However comma everyone is not poor--often through a great deal of "fault" of their own! (As you've probably figured out a long time ago, I'm neither a liberal nor a humanist by a long shot.)

Anyway, I fully agree with John. I'd like to see the various manufacturers offer a more extensive line of products--including high-grade, multi-function receivers and other exotic equipment. If someone can't afford it, that's tough apples. I can't afford a lot of things I'd like to have, but that's my fault. I'd much rather see something on the market that I cannot yet afford as opposed to having the money to buy something that does not yet exist. Please understand, I do not wish companies to pull their low-priced "beginners" units off the market, but I would like to see them take cognisance of the number of people who do have some bigger bucks to spend and offer more options. John's suggestions include "add-on" or "plug-in" options such as the way home computers are marketed. Great idea! If you don't want something (such as UHF "T" band) don't get it and have to pay for it. If you do want something (such as UHF Aircraft band) save your pennies and order it. People have been custom-tailoring automobiles, stereo equipment and the like for years. Why can't scanner/monitor equipment be offered with "addable" or deletable options from the manufacturer. Why must people be denied expensive, low-volume ancillary devices because they have no "mass-marketing appeal"? Why must I pay for things I don't want, but be denied the things I do want in a set? If you feel the same way, write! Not to me--to the manufacturers.

Scott Glicker (who does not list his RCMA number) from Sunrise, FL writes the very next letter about my comment on various equipment being discounted--like "where", he asks. Well, as a start, some of the companies advertising or mentioned in columns in the Newsletter. I just can't believe that anyone in America has to pay $449.95 for a Bearcat 220. In the same mail I got a flyer from DEVER COMMUNICATIONS (AR-001), ROUTE 2, BOX 277, HOT SPRINGS, ARK 71901 (Ph.: (501) 262-1642. I have never dealt with the firm, but they offer what looks like the whole Bearcat and Regency lines for discounts of 35% to 40% or more off (such as 300's for $348.99, 220's for $268.99, etc.) They picture the new Bearcat 350 @ $418.99 and the new 20/20 @ $288.99. I am not recommending either these receivers or the company, I am only reporting some of what I receive in the mail. If you don't want to deal with some unknown and far-away company then watch the Sears and Roebuck sale papers. They now offer quite an array of name-brand electronics including scanners (Fall/Winter Big Book p. 813). These are frequently discounted in their weekly and monthly sale papers. I recently became interested in a compact stereo for a "study" I'm building now that all of our kiddies are gone. I found the one I want, then discovered that it was on sale for $100 bucks off. In talking to a sweet young lady at the store I found out that last year's model (still on sale) had more features at $10 less and that if I ordered one before a certain date they'd knock of another 10%! Shop around, man. Nothing thrills

me more than to decide on what I want and then to scrounge around and find that it can be had for 40%,or even more,off.

I am not talking about going around buying inferior or shoddy goods at some "Honest Harry's" (we'll-be-outa-town-by-tomorrow) operation. The competitive free market system in America causes almost everything to be on sale at some time--from funerals to scanners. Shop around! There is always a pretty good used market in this stuff, too. (Scanners, not funerals.) I've bought a number of things through "the Marketplace" in this newsletter (including my Kenwood R-1000) and have been satisfied every time--although it is always something of a gamble. I'm still looking to buy a Palomar Low-Freq Converter used through the mail. Working for the County as I do, with my office in the central city, I am aware of the gross number of "unseemly characters" that abound in our culture. Not too many of these people seem to gravitate to the radio hobbies, however. Buying a used scanner is not usually like buying a used '68 "Cheby".

Ron Misenhimer CASJ-003 of neighboring Stockton also noted my error on Thin-Scans. At least he sent a First-Day-Cover Polar Bear stamp to point out my dumb mistake. Thanks, Ron. D. E. Brown NY-139 from Ozone Park (?), NY sent me a Bearcat flyer on the same issue. Albert Greeman NY-032 caught it, too. At least I know somebody out there reads this stuff!

Michael S. Perlman writes a quick note from Evanston, IL (IL-044) about aircraft mobile telephone freqs. Mike Redman MO-002 of St. Charles, MO sends along some good comm poop including the Air-Ground Radiotelephone System chart that I sincerely hope will reproduce at the end of this column. I'd like to print the other data he sent, but I get in enough trouble with the other editors for getting into their bailiwicks. I am suppose to report only on the very narrow 108-135.9 and other selected freqs associated with aircraft. Mike states, "I never miss reading your column yet I have little interest in aircraft radio. This is indeed strange since I'm just a few miles west of Lambert International Airport in St. Louis..." As Mike is an RCMA Regional Editor, I sure hope he develops a bit of interest in the aircraft freqs, especially since he is running for a RCMA office! Mike, I know some people find the Taxi dispatch freqs more exciting than ATC. To each his own, but give us a try.

Jack Waterman CAOR-118/IL-??? now of Mundelein, IL also sends the radiotelephone freqs. He also sends a reproducable list of New York area ATC freqs.

I also received a welcome postcard from Carol Ruth, who is now doing the Newsletter "paste-up", confirming the receipt of my last-month's material. Before, you never knew if your stuff made it until the issue came out two months later. Thanks for the card and your comments, Carol. You say you know very little about aviation or radio. Well, as you can see, I know very little about writing.

I'm sure you must all be aware--Radio Shack has their new catalog out. They have a neat little device in their 1982 book (#341) on p. 84: A water/flood alarm for $9.95 if you, like me, have certain valuable equipment on the floor around a water heater, washing machine or outside-water prone areas. Well, I've got a burglar alarm, a smoke alarm and now a water alarm. All I need now is a "you're-late-for-your-deadline" alarm. Heath-kit's new Fall '81 catalog is also out with many goodies new this season.

René G. Borde CASC-018 of Sunnyvale, CA wrote a letter concerning image freqs and sent an extensively researched chart on same for a receiver with a 10.8 MHz IF freq. I want to check it out a little and try to report on it in the next column. Thanks for the work, René. As to Bob Grove's question on receiving code on various freqs--I get a fair amount of code on ham freqs (and their images) in the VHF/UHF bands. Mostly guys working "repeater nets". It is usually in very rapid bursts, then they yak a while about what they've just transmitted.

I received a proposal from Robert Berezowski, the RCMA Canadian Editor, concerning who was going to handle Canadian aircraft freqs. Robert, at this time I'd just as soon not get involved in any more Canadian or other "foreign" freqs. I've got my hands full with the U. S. of A. I've spent a lot of time in your beautiful country at some of the Air Force garden spots in Labrador, Newfoundland and Baffin Island and I've vacationed there, as well. It's a nice place to visit, but I wouldn't want to get involved with your aviation radio service--although it is very similar to ours. From time to time I may mention a non-US freq for someplace that doesn't have a column editor of its own. I hope you understand. Some editors are forever pleading for something to print, but I'm starting to become swamped with what is suppose to be a hobby. Thanks for the offer, anyway.

Well, I'd like to close with a copy of a letter I wrote to our current President, John Clark CAOR-078 back on 17 April 1981. I sent a copy to each officer of the Association at the same time. It is interesting to note that to the time I write this nearly six months has elapsed in which I received neither a reply nor the courtesy of an acknowledgement from anyone at any time. I would hope that the new officers would look favorably upon the proposal--or at least be kind enough to reply. My offer of service will not be open for ever. To Bob Grove--thanks for your encouragement.

Well, I guess this issue will be coming out in print a little before Thanksgiving, so have a happy Turkey Day. We do have a lot to be thankful for in this country. I've seen forty or so other countries. I know. Take our little hobby, here. Most backwards countries don't have scanners and most advanced countries absolutely prohibit their ownership by the citizens. Americans don't take readily to having things they want prohibited, be it scanners, firearms, or the freedom of individual choice. We're a strange group, I guess.

COPY FOR YOUR INFORMATION

17 April 1981

821 Elisa Way,
Roseville, CA 95678
Ph. (916) 783-0673
Work 440-7611

Mr. John Clark (CAOR-078)
President, RCMA
P. O. Box 4563,
Anaheim, CA 92803

869-1198

Dear John: 512

While I am aware that your current term of office is nearing an end, there is still time to initiate something of great future value to the RCMA: Incorporation!

As a real estate appraiser I belong to a professional society of such appraisers. Much to the dismay and woe of the Society's officers and members, the threat of a substantial lawsuit loomed very large at one time. The Society Chapter wisely decided that beyond liability insurance, incorporation under the laws of the State of California as a non-profit corporation would offer the best protection against such threats to the individual officers and members' personal assets.

Let me say right off--while I do have access to the Sacramento County Counsel's attorneys on an informal basis and also access to their law library--I am not an attorney nor am I giving legal advice. I am offerring suggestions here as a concerned member of the Association. What I can offer to the cause is the fact that my office here in Sacramento is but five blocks from the Secretary of State's (March Fong Eu) office that receives the applications for incorporation. Probably not too many of our other members can offer that advantage.

Under the California Corporations Code, Part 1 (Section 5000) and Part 3 (Section 7000) as written in West's Annotated California Codes, Volume 24, it would appear that really not too much at all is required for incorporation of an organization such as the RCMA as a "Nonprofit Mutual Benefit Corporation" (p. 176 on). There are lengthy codes on how things are to be done IF the incorporating group chooses to do them, but not very much is really mandatory.

The filing of the Franchise Tax Board's form FTB 3500 for tax exempt status looks about as hard as doing a long-form income tax form with various supporting schedules. The tax-exempt filing fee is $15--which hadn't ought to break the RCMA. I enclose a packet of materials from the State. I do not enclose a xerox of West's as it is quite lengthy, but should be available at most libraries of any consequence.

I personally feel that all of the required papers and forms could be accumulated and filled out fairly easily. Perhaps an appropriate attorney could be hired to simply review them for not too many dollars and incorporation could be accomplished in not too many weeks. If this were done by us now while the Association is still comparatively small (@ 2,500+), I believe it would be of great benefit as the group continues to grow in years to come. I stand ready to devote my time to this cause if the officers of the Association decide in favor of the proposal. I enclose extra copies of this letter for the other Association officers. Please advise soon.

Sincerely,

Ronald E. Hammer

Ronald E. Hammer
Aircraft Column Editor

COPY FOR YOUR INFORMATION

HIT 'S' TO STOP; 'P' TO PAUSE

AIRCRAFT FREQUENCIES-
ALL FACILITIES HAVE EMERGENCY FREQUENCY 121.5
JFK
ARRIVAL NORTHEAST 111.2
ARRIVAL SOUTHWEST 115.5
DEPARTURE 115.1
APPROACH 127.4 118.4 123.7 125.7 126.8 132.4 134.35
DEPARTURE 121.1 124.45 124.75 134.9
TOWER 119.1 123.9 132.4 (V/STOL 125.25)
GROUND 121.9 121.65
CLEARANCE 135.05

LAGUARDIA
ARRIVAL 125.95
ARRIVAL/DEPARTURE 113.1
APPROACH 134.9 118.0 124.95 128.8 127.3 132.7 120.8
DEPARTURE 120.4 134.9
TOWER 118.7 119.95
GROUND 121.7 121.85
CLEARANCE 135.2

TEB
ATIS 108.4
NEWARK APPROACH 127.6
NEWARK DEPARTURE 119.2
TOWER 119.5 125.1
GROUND 121.9

EWR
ATIS ARRIVAL 115.7 DEPARTURE 132.45
APPROACH 125.5 127.6 128.55 120.15 125.5 125.85 126.7 127.3
135.35
DEPARTURE 119.2 135.35
TOWER 118.3 134.05 127.85
GROUND 121.8 121.6
CLEARANCE 118.85

FLU
UNICOM 122.8

BRADLEY INTL
ATIS 118.15
APPROACH 125.8 123.85 125.35 125.65
DEPARTURE 125.65 125.35
@TOWER 120.3
GROUND 121.9
CLEARANCE 121.75 121.8

WHITE PLAINS"WESTCHESTER"
ATIS 116.6
@APPROACH 126.4 124.65
DEPARTURE 120.55 124.65
TOWER 119.7 126.75
GROUND 121.8
CLEARANCE 127.25

ISLIP "LONG ISLAND MACARTHUR"
ATIS 128.45
APPROACH & DEPARTURE 120.05 124.05 127.95
TOWER 119.3 124.3
GROUND 121.7

AIR TO AIR (MULTICOM)
122.9

NEW YORK CENTER
ENROUTE
MONTAUK PT 133.3
SAYVILLE 125.75
DOULASTOWN 133.2 119.8
SHELTON 134.0 120,02 128.1 132.3
KINGSTON 127.55
SHIP BOTTOM 125.6 128.3 133.47
MATAWAN 120.95 133.05 135.1

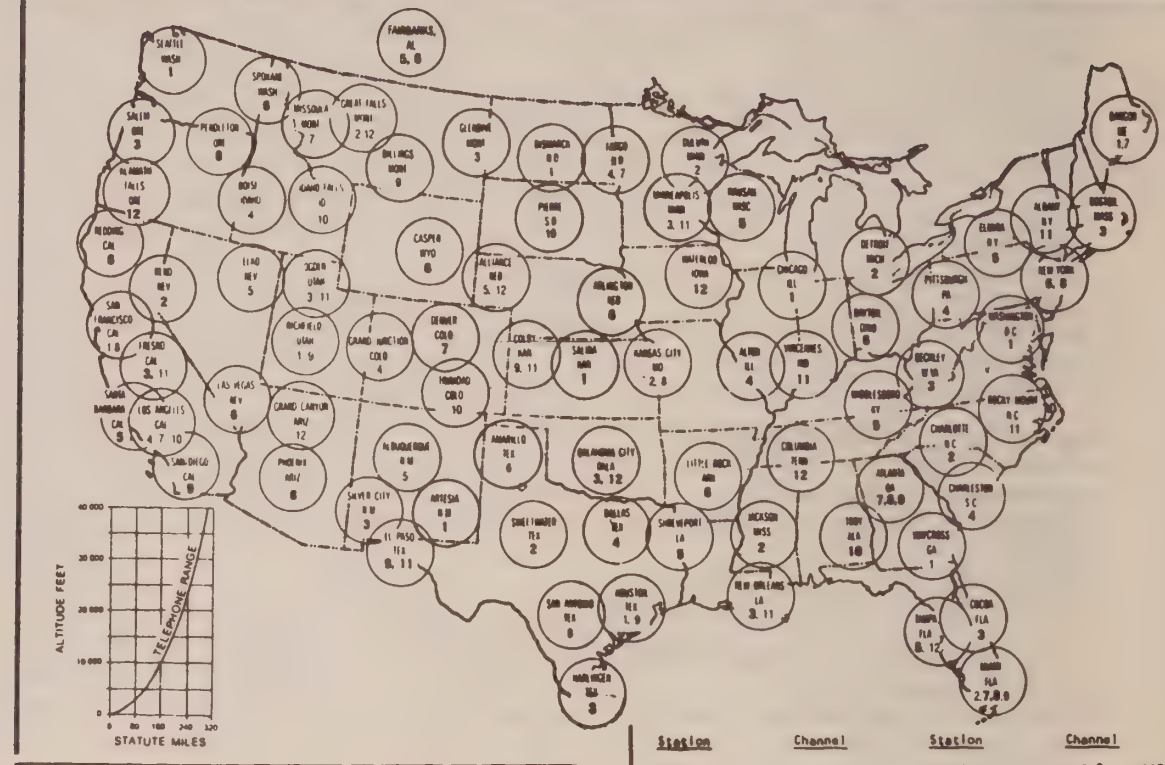
BOSTON CENTER
ENROUTE
PAWLING 132.65
WOODSTOCK 127.1 121.35 123.95 118.05

NEW YORK TCA
NEW YORK APPROACH 125.7 120.8 125.5
WESTCHESTER APPROACH 120.55 126.4

FLIGHT SERVICE (NEW YORK RADIO)
122.1R (DUPLEX)--115.9T
122.6 122.6
122.2 122.65 (TETERBORO RADIO)

ENROUTE FLIGHT ADVISORY SERVICE
TETERBORO FLIGHT WATCH 122.0

Air-Ground Radiotelephone System



Channel Designation	Transmitting Frequencies	
	Base Station	Aircraft
Channel 6	454.700 MHz	459.700 MHz
7	454.725	459.725
5	454.750	459.750
8	454.775	459.775
4	454.800	459.800
9	454.825	459.825
3	454.850	459.850
10	454.875	459.875
2	454.900	459.900
11	454.925	459.925
1	454.950	459.950
12	454.975	459.975
Signal Channel	454.675	

Channels and frequency assignments for Air-Ground Telephone Service.

Station	Channel	Station	Channel
Albany, NY.	11. RCC	Miami, FL	7,8 RCE
Arlington, NB	6	Middlesboro, KY	5 RCE
Artesia, NM	1. RCC	New York, NY.	6,8
Atlanta, GA	7,8,9. RCC	New Orleans, LA	3 RCC
Beckley, WV	3	Oklahoma City, OK	3,12. RCC
Boston, MA.	3	Pendleton, OR	8
Casper, WY.	6	Phoenix, AZ	8
Charleston, SC.	4. RCC	Pittsburgh, PA.	4
Charlotte, NC	2. RCC	Redding, CA	6
Chicago, IL	1	Reno, NV.	2
Cocoa, FL	3. RCC	Salem, OR	3
Columbia, TN.	12	Salina, KS.	1 RCC
Dallas, TX.	4. RCC	San Diego, CA	9
Dayton, OH.	6	Santa Barbara, CA	5
Denver, CO.	7	Seattle, WA	1
Detroit, MI	2	Shreveport, LA.	5 RCC
Elmira, NY.	5	Silver City, NM	3 RCC
El Paso, TX	9,11. RCC	Spokane, WA	6
Fairbanks, AK	5,6 RCC	St. Louis, MO	4
Fresno, CA.	3	Sweetwater, TX.	2 RCC
Harlingen, TX	3. RCC	Tampa, FL	5
Jackson, MS	2. RCC	Troy, AL.	10
Klamath Falls, OR	12	Vincennes, IN	11
Las Vegas, NV	6. RCC	Washington, D.C.	1
Little Rock, AR	6. RCC	Waterloo, IA.	12
Los Angeles, CA	4,7,10 RCC	Wausau, WI.	5

Air-ground telephones operate through a network of 52 active ground terminals located across the country on a grid of approximately every 300 miles.

Communications News- 11/78

IAMF UNITED AIRLINES (CALIF. ONLY)

FREQUENCY	CALL SIGN		CITY
75.00			L.A.
75.00			S.F.
108.00			L.A.
108.00			S.F.
108.10			L.A.
108.10			S.F.
334.10			L.A.
334.10			S.F.
334.70			L.A.
334.70			S.F.
121.65			
121.70			
121.70			S.F.
121.75			
121.80			
457.55	KA29146		
460.725	KML555		L.A.
460.725	KLG479		OAKLAND
460.725	KGU934		S.F.
460.725	KUH326		MONTEREY
460.725	KRF694		BURBANK
460.725	KLO780		SAN JOSE
460.725	KLC479		OAKLAND
460.725	KFP838		SACRAMENT
460.725	KAX261		ONTARIO
462.775	WYS363		S.F.
460.875	KFJ292		S.F.
460.875	KLU779		L.A.
464.325	KDD676		S.F.
465.725	KAS3908		
465.875	KFJ292		S.F.
465.875	KLO779		L.A.
467.875	KA29146		
469.325	KDD676		S.F.

TRANS WORLD AIRLINES (CALIF. ONLY)

FREQUENCY	CALL SIGN		CITY
~~75.00~~			S.F.
75.00			L.A.
108.00			S.F.
108.00			L.A.
108.10			S.F.
108.10			S.A.
334.00			S.F.
334.00			L.A.
121.65			
121.75			
121.80			
151.775	KQY503		ONTARIO
151.775	KVL226		L.A.
151.775	KLH856		OAKLAND
460.675	KLT378		S.F.
460.675	KLT459		L.A.
460.85	KMJ690		S.F.
464.525	KAR252		L.A.
465.675	KL8088		
465.675	WFZ695		S.F.
465.85	KMJ690		S.F.
469.525	KAR252		L.A.

PAN AMERICAN WORLD AIRWAYS (CALIF. ONLY)

FREQUENCY	CALL SIGN		CITY
151.685	KMK311		L.A.
151.685	KMK936		S.F.
460.65	KSK596		S.F.
460.65	KOI455		L.A.
460.80	KET750		SO. S.F.
464.675	KQZ410		L.A.
465.65	KOI455		L.A.
465.80	KET750		SO. S.F.
469.675	KQZ410		L.A.

NAME WORLD AIRWAYS (ALL)

FREQUENCY	CALL SIGN		CITY	
75.00			OAKLAND	
108.10			OAKLAND	
108.20			OAKLAND	
334.70			OAKLAND	
154.60	KO6762		OAKLAND	
460.85	WXJ300		NEWARK N.J.	
460.85	WXE946		L.A.	
460.85	KVL606		CHICAGO ILL.	
460.875	WSR910		HONOLULU HI.	
464.3625	KA69750			
464.675	KVJ331		OAKLAND	
465.85	WXJ300		NEWARK N.J.	
465.85	WXE946		L.A.	
465.85	KVL606		CHICAGO ILL.	
465.875	WSR910		HONOLULU HI.	
469.3625	KA69750			
469.675	KVJ331		OAKLAND	

NAME BRANIFF AIRWAYS (ALL)

FREQUENCY	CALL SIGN		CITY
460.700	KYP395		L.A.
465.700	KYP395		L.A.

Two R.C.M.A. members have just released new catalogs of materials they are vending. If you are not on their mailing list, a SASE to them will get you a catalog.

Robert Grove (Federal Government/Military editor) of Grove Enterprises Brasstown, NC 28902 ... lots of items some brand new

Don Erickson (RCMA ANARC representative) of Century Print Shop, 6059 Essex Street, Riverside, CA 92504-1599 .... books at fantastic discounts

Beginners ???? Corner

Have a question? If you are a new scanner listener and don't understand something about monitoring that almost everyone else seems to understand, send in your question. When possible, your question and the answer will be printed. No answers will be sent by return mail. Your name will not be printed. Write to: David E. Crowley, 7234 Balson Ave., University City, MO 63130.

Q. I've noticed a frequency, 155.370 MHz listed in Police Call for my own town as well as for two neighboring communities. It's listed for "Intersystem Coordination," but I've never heard any traffic on it. What does this mean?

A. 155.370 MHz is indeed used for communication among police departments. Here in the midwest we call it "point-to-point" and it's constantly active with routine and emergency traffic. In other parts of the country, other frequencies are used. In some areas, the police keep their inter-system frequency in reserve for dire emergencies and conduct their routine communications over the telephone.

Comment for the month: Please excuse the brevity of this month's column. As usual, your editor has his fingers in too many pies at once. I hope that one day, one of these projects comes to fruition so I can make a jubilant announcement in these pages.

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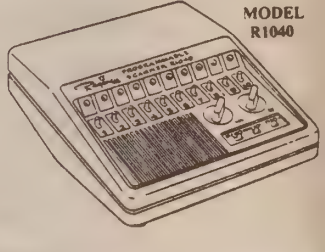
POLICE SCANNERS FIRE



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Dever Communications

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RT. 2 BOX 277

HOT SPRINGS, ARK. 71901

501-262-1642

WRITE TODAY FOR CURRENT DISCOUNT PRICE LIST

UNBELIEVABLE LOW DISCOUNT PRICES

Business, Etc.

This column is for reporting frequency and radio system information for the following varied services: business, forest products, petroleum industry, special industrial, manufacturers, news media (behind-the-scenes radio, TV & newspaper), motion picture industry, security (private patrol, detective agencies, campus security & police, amusement park & stadium security, shopping center & mall security, plant/business/ hotel security, etc.), General Mobile Radio Service (GMRS), mobile phone/RCC & paging, trucking firms, bus lines, taxi cabs, tow trucks, utility companies (private & municipal water, power, electric, gas, telephone, etc.), and all school & college related frequencies.

EDITOR NEEDED!

Do you have an interest in business frequencies? Do you know the difference between an itinerent and local control channel? Can you recognize a press relay frequency from a manufacturing allocation? Can you type well? Do you have several hours a month (4 to 6 hours at the most) do devote to RCMA? Then, your help is needed to take over this column. The newsletter needs a new editor for this column and we would like the new person to take over as soon as possible for this popular section. If you can answer " yes" to the above questions and would like to take on the challenge, TYPE a letter stating your qualifications to RCMA Managing Editor, P.O. Box 1119, Flemington, NJ 08822.

CANADA

Send Canadian frequency information, radio system details, other information relating to Canadian monitor radio listening, and questions to: Robert Berezowski, 5832 Dalhousie Drive NW, Calgary, Alberta T3A 1T1 Canada.

Welcome to the Canadian column for December. The post office is still in a state of total screw up. Apparently there is a large backlog somewhere. All I know is that I haven't received some important letters yet. I know they have been mailed, but that doesn't help. The ribbon in this machine is also very weak. I am sorry about this, but I don't think I'll have time to go out and get a new one before I finish. I just started first year engineering at the University of Calgary, and the work is starting to bog me down. Anyway, if halfway through this column the lettering suddenly turns black, you'll know that I found a new ribbon.

I received a letter from a member, but unfortunately I lost the name of the contributer. I'm sorry about this, but I don't have time to hunt for the letter. Anyway, this "mystery member" advises me that he wrote to Supply and Services Canada to try to obtain a copy of the publication "Table of Frequency Allocations" but was informed that the publication was out of print. He also gave me the address for Supply and Services:

Supply and Services Canada
Canadian Government Publishing Centre
Hull, Quebec
K1A 0S9

I would like to call your attention to page 36 of the Sept issue of the RCMA. I would like to point out that this company, Orcutt and Hussey, sells Canadian versions of Regency and Bearcat scanners to both Canadian and U.S. members. If you're thinking

of buying a scanner, you might want to check them out.

From Andre Martin (CAN-069) comes this list of frequencies for the Montreal area:

Federal Gov.	Dept. of Communications		149.080
	Customs		154.900
	Montreal Harbour Customs XLK63		462.350/467.3625in
	Canadian Coast Guard		140.340
		Dragging/Sounding	170.910
			171.270
			172.440
		MOCOM(phone patch)	143.145
Provincial Gov.	Communications		139.140
	Transportation	1	169.380
		2	169.830
	Animal Conservation		172.050
			172.230
Montreal Police Dept.	Center		153.650
	North		154.100
	East		153.920
	General		154.740
	South		155.400
	W.T.		410.0125
	W.T.		413.6625
	W.T.		412.6875
	W.T.		413.7375
Longueuil Police			412.0625
	GI		412.5875
Boucherville Police			153.770
St. Lambert Police			155.490
Bromont Police			154.010
G.F. Park Police			154.860
Brassard Police			412.0125
St. Hilaire Police			411.5625
St. Hubert Police			412.7875
Varenne Police			412.1125

Thanks for the list Andre (for proper French writing a slash mark should be placed over the "e" in Andre, but this typewriter does not have this character. Why am I telling you this? Just to set the record straight.)

In case you weren't aware of it, during the transition between this paragraph and the one above, you entered a time warp. While in the time warp I found a new ribbon for the typewriter. For those of you that made it this far, you're probably blind by now.

From Steve (CAN-047) comes some new frequencies and changes for the Vancouver area.

Vancouver Int'l Airport	RCMP Airport Security	413.2875
	RCMP Detachment (Richmond TAC 2)	139.380
	(TAC 1 Common)	139.080
	Air Canada Operations	460.700
	CP Air Operations	162.570
St. John's Ambulance		162.300
Boyse Towing		171.210
Baines Towing		163.740
Payless Towing (change in frequency)		452.6875
Vancouver Area SPCA		171.960
Canada Fisheries		172.950
		171.660
U.B.C. Security Guards		155.535

(Steve advises that the frequency of 155.265 is no longer in use-ed)

UHF Mobile Phone (BC Tel)	454.500/459.500in
	454.575/459.575in
	454.650/459.650in

That's a very good list Steve. I think we all know how much time and effort it takes to try to identify some of those businesses. Personally I haven't found the time to search out new frequencies and identify them recently. Maybe in a little while I'll find some more time to do this and other things.

Eric (CAN-046) has compiled a list of various agencies in the Hamilton/Wentworth region. Here is that list:

Hamilton/Wentworth Police (XJF-359)	Wentworth Mountain Area CH.		1	142.485
	Hamilton Downtown		2	142.635
	Hamilton East Area		3	142.845
	Special Purpose		4	143.085
	Police Intersystem		5	142.770
Hamilton Harbour Police				155.700
Halton Region Police	North Area	XJI-737	1	142.275
	Oakville	XJK-856	2	142.515
	Burlington	XJI-80	3	142.095
	Intersystem		4	142.770
	(Not Used)		5	141.585
Oakville Harbour Police		XJJ-54		151.235
O.P.P.	Burlington	XJB-74		42.060
	Waterdown	XJC-24		42.060
	Mobiles			42.220
Hamilton City Fire Dept.				154.830
Hamilton District Fire Dept.				154.250
Burlington Fire Dept.				154.205
Oakville Fire Dept. (Dispatch)			1	154.160
Test Frequency (Fire Marshall-ed)			2	154.070
Hamilton Ambulance	XNW-48			150.100
Oakville Ambulance				149.170
Hamilton City Disaster Services				148.665
Provincial Disaster Services (Hamilton)				149.495
				149.525
				154.920
Hamilton News Services	Radio Station CHML			153.290
	Radio Station CJJD			150.545
	Hamilton Spectator			170.280
Halton Region Works Dept.				486.400

(That frequency has been reported before. There are no allocations to mobile radio services in that band 470-512 MHz. The image would fall in the 464 or 465 MHz range depending on the IF used. If someone could send me the proper frequency I will print it.)

Hamilton Hydro	153.470
Burlington PUC	169.290
Burlington Dept. of Works	169.260
Oakville Transit	417.0125
Burlington Transit	462.7375
Hamilton Transit	153.650
Halton Taxi (Burlington)	166.380
Yellow Cab (Hamilton)	463.0875
Lockwoods Towing (Hamilton)	464.450
Kings Towing (Hamilton)	164.100
Hamilton Mobile Phone	152.600
	152.810
	152.840

Thanks for the list Eric. I hope your next list will be ready soon. From Chris (CAN-061) comes an Ontario Ministry of Natural Resources News Release dated Aug. 19, 1981. It says that the MNR sent out a portable radio system to aid Alberta Forest Fire Fighters in the Swan Hills area. The kit consists of a portable repeater, paging units (10), six-channel portable hand-helds (100 of those), a base camp radio and 20 radios capable of being installed in aircraft. They were used to battle the 14,164.04 hectare fire (they got their tape measure out for that one). I

don't know the frequencies used, but they are probably in the 46 MHz range. I thought I would pass that on in case they lend out the radios to other provinces or use it in Ontario. I had heard that they were flying in replacement firefighters from other provinces to relieve those there, but I had not heard about this new radio being used.

From Burt (CAN-011) comes this list of Police and Fire agencies in the Ontario area.

London Police Dept.	XJF-25		1		142.035
			2		142.305
			3		142.770
			4 NCIC/CPIC		142.875
Ingersoll	XJG-88				142.065
Woodstock	XJ(?)-76				142.920
St. Thomas Police	XJF-82				142.125
Brantford Police					142.935
Aylmer Police	CHC-204				142.500
Strathroy Police					142.335
Stratford Police	XJG-36	(Regional Dispatch)			142.425
		"	"		142.095
		"	"		142.725
Waterloo Regional Police	XJI-741				142.185
					142.620
					142.585
					142.815
Haldimand-Norfolk Regional Police					142.245
					142.145
					142.880
					142.740
Woodstock Fire Dept.	XJF-369				154.130
Ingersoll Fire Dept.	XJH-255				154.130
Norwich Fire Dept.					154.130
Tillsonburg Fire Dept.					154.130
London Fire Dept.	XJI-765		City	3	154.950
				4	154.635R
			County	1	154.370
				2	154.070
Stratford Fire Dept.	XJF-64				154.680
St. Mary's Fire Dept.	XJI-774				154.680
St. Thomas Fire Dept.	XJJ-61				153.800
Kitchener Fire Dept.	XJJ-24		City		152.915
			County		154.010
Waterloo Fire Dept.	XJL-563				154.010
Burlington Fire Dept.	XGF-349				154.205
Guelph Fire Dept.	XJF-381				153.770
Cambridge Fire Dept.	XJI-690				154.650
Hamilton Fire Dept.	XJH-89				154.830
Simcoe Fire Dept.	XJH-257				154.340
Brantford Fire Dept.	XJB-28	City and County			153.845R
Oxford County Control	XJF-369				154.100

Thanks Burt. To finish off here is some info that Guy (CAN-031) sent along:

CFB EDMONTON, ALTA	
TWR:	118.0 126.2 236.6
	294.7 325.9 121.5
	243.0
GND:	121.8 275.8
A/G: Base Ops	131.4 383.7
VFR ADVSY SVC:	121.1 238.3
PMSV (Wx):	344.6
RADAR):	119.0 134.1 289.4
	349.6 121.5 243.0

CFB GAGETOWN,NB
TWR: 45.8 49.9 126.4
126.2 245.8 321.8
121.5 243.0

That's it for this month. Until next month, good listening.

COMMUNICATIONS PROFILE

RCMA, P.O. Box 1119, Flemington, NJ 08822

This column is for special projects that explain various radio systems in detail. Frequencies and radio codes of not only municipal agencies and certain federal government agencies may be listed, but also large businesses and corporations. The contribution mvst be lengthy enough that publishing it in one of the regular columns would not be possible due to length. If you are inclined to submit a report as the one below appears, please follow No. 8 in the inside front cover of the Newsletter.

Chicago Police Communications
by Michael Yanul (IL-014)

The origins of Chicago Police radio communications date back nearly a half century, when police calls were announced over regular broadcasts on WGN Radio (720 on the AM dial).

Today's communications center and system was the result of a major reorganization of the department prompted by a police scandal. In 1960, the discovery of a burglary ring consisting of at least eight policemen, created such public outrage, that Mayor Richard J. Daley was forced to completely reform the department. His choice for new police chief was noted Professor of criminology, Orlando W. Wilson, from the University of California. Wilson studied and developed new techniques and methods for crime fighting and was totally unlike the politically influenced Chicago police. Mayor Daley gave Wilson the financial support to create a modern and progressive police force.

The key to reorganizing the department was the centralizing of operations and the breakup of police districts within political ward boundaries. A major part of the new centralized operations, was the creation of a central radio dispatch center. The center was designed to expand with the future needs of the department and to adapt to advancements in radio communications. To this day, it is one of the largest and most advanced public saftey communications systems in the country and perhaps the world. After the Center's dedication on November 21, 1961, Scotland Yard became interested in it and sent someone to study the system and it's operations.

The Chicago Police Department is organized into six sections. Each section consists of several divisions. A complete listing and breakdown of the organization would be quite lengthy. The following is the basic structure:

A. Office of the Superintendent
B. Bureau of Operational Services
    1. Patrol Division
    2. Districts
    3. Special Operations Group
    4. Traffic Division
C. Bureau of Investigative Services
    1. Detective Division
    2. Organized Crime Division

3. Youth Division
D. Bureau of Administrative Services
E. Bureau of Technical Services
1. Communications Division
2. General Support Division (Evidence Section)
F. Bureau of Community Services

In the original setup of the system, the city was divided into eight communications zones which were controlled from the central dispatch center. In 1973 the zones were increased to eleven and in 1976 to the present thirteen. There are 24 districts within the thirteen zones, usually with two districts per zone. A 25th district is slated for the Northwest side. From the standpoint of criminal investigation, the city is divided into six investigative areas with each area containing three, four, or five police districts.

All radio communications are carried out through a semi-duplex system. Each zone has its own separate transmitting and receiving frequencies. Fifty outlying satellite receiver stations receive radio signals from mobile units throughout the city and relays them to the Dispatch Center via telephone lines. The strongest signals from the receiver stations are automatically selected by "voting" equipment at the Dispatch Center. This provides the dispatcher with the best possible reception of a mobile unit. Since 1970, patrolmen on the street have used the Personal Portable Radio System enabeling them to stay in radio contact when away from their patrol car. These units are rebroadcast by "mobile relay" to all other mobile units on the same channel.
The Communications Center is located on the second and third floors of police headquarters in downtown Chicago. Over 400 people from the department's bureau of Technical Services are employed to man the system.

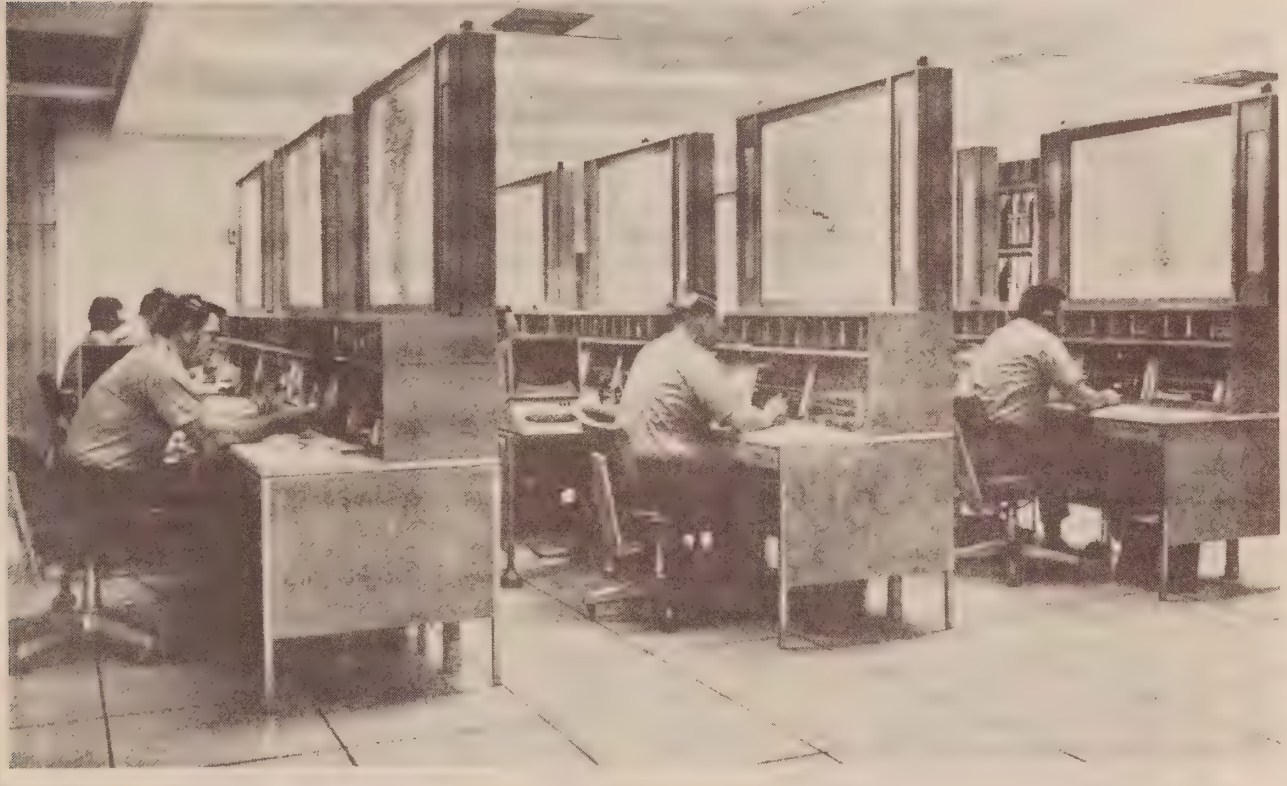
Each zone dispatch desk consists of a row of three identical consoles with illuminated maps of the districts they control. Patrol cars are represented on the maps by status lights. When a patrol car goes on an assignment, it's status light is turned off by the dispatcher. Each of the three consoles has the ability to dispatch cars. However, only one dispatcher usually handles radio traffic, while the other two dispatchers or dispatch aids answer phones and work the computer inquiry terminal linked to the Chicago Data Center. Dispatchers are police officers with at least three years street duty. Civilians are dispatch aids.

144 telephone trunk lines serve the Dispatch Center with the 911 emergency phone system. The center receives all calls for police, fire, and EMS. Calls are automatically routed by computer to the zone which serves the district in which the phone call originates. Calls for fire and EMS are "Fast Forwarded" by the police dispatcher to the fire or EMS dispatch centers. The Chicago 911 system also features Automatic Number Identification (ANI). When a dispatcher answers a 911 call, the callers phone number and address appears on a digital readout on the zone console.

Police districts are divided into three, four or five sectors. Sectors consist of three to five patrol beats. The size and number of beats varies according to size of the district. Some beats are larger than a square mile. A patrol car is assigned to each beat. In addition to the beat cars, every sector has a Supervising Sergeant, patrol wagon and several extra patrol cars (sector cars).

Radio call identification numbers are assigned to all police vehicles. Each district uses a standardized district vehicle numbering system. The district vehicle numbering is primarily based on sectors and beats. For example, patrol car 1824 is broken down as follows: The first two digits denote that it is an 18th District car. The last two

This official Chicago Police photo shows the Dispatch Center on the 2nd floor of police headquarters. City-wide 1 console is on the left with large wall map of the city.



This is the third floor of the Dispatch Center. These consoles were added to the system to accommodate an increase in zones.(C.P.D.Photo).

digits are for the sector and beat it patrols. These numbers are also mounted on a small plaque on the roof of every patrol car and wagon. The following is a breakdown of the last two digits of the district vehicle numbering:

00	District Commander
01	Desk Sergeant
02	Desk Officer
03-04	Warrant Officers
05	Abandoned Vehicle Officer
06	Incident Car
07	Neighborhood Relations Sergeant
08-09	Special Assignments
10	Supervising Sergeant - Sector 1
20	Supervising Sergeant - Sector 2
30	Supervising Sergeant - Sector 3
40	Supervising Sergeant - Sector 4
50	Supervising Sergeant - Sector 5
11-15	Beat Cars - Sector 1
16-19	Sector Cars - Sector 1
21-25	Beat Cars - Sector 2
26-29	Sector Cars - Sector 2
31-35	Beat Cars - Sector 3
36-39	Sector Cars - Sector 3
41-45	Beat Cars - Sector 4
46-49	Sector Cars - Sector 4
51-55	Beat Cars - Sector 5
56-59	Sector Cars - Sector 5
61	Tactical Sergeant - Team A
62	Tactical Sergeant - Team B
63	Tactical Sergeant - Team C
64	Tactical Sergeant - Team D
61A-61D	Tactical Team A
62A-62D	Tactical Team B
63A-63D	Tactical Team C
64A-64D	Tactical Team D
70	Tactical Lieutenant
71	Squadrol (Patrol Wagon) - Sector 1
72	Squadrol - Sector 2
73	Squadrol - Sector 3
74	Squadrol - Sector 4
75	Squadrol - Sector 5
76-79	Squadrol - Not Otherwise Assigned
80	Detail Sergeant
81-89	Foot Beats
90-91	Field Lieutenants
92-98	3 Wheel Motorcycles
99	Watch Commander

When a patrol car finishes investigating an assignment, it reports it's findings by using a combination of two codes from the Miscellaneous Incident Reporting List. For example: Upon investigating a disturbance with teens, a patrol car will radio back to the dispatcher a code of "2-F FRANK" (Disturbance Teens - Peace Restored). The following is a listing of the two codes:

1	Disturbance Domestic	A	ADAM	Not Bona Fide
2	Disturbance Teens	B	BOY	No Person Found
3	Disturbance Drunk	C	CHARLES	No Such Address
4	Disturbance Noise	D	DAVID	No Service Necessary
5	Disturbance Other Street	E	EDWARD	Perpetrator Gone
6	Illegal Parking	F	FRANK	Peace Restored
7	Sick Removal	G	GEORGE	Advised Warrant
8	Injured Person	H	HENRY	Recontact Police

9	Man or Woman Down	I	IDA	Taken to Hospital
10	Animal Bite	J	JOHN	Returned Home
11	Suspicious Person	K	KING	Taken to District
12	Calling For Help	L	LINCOLN	Info. Report Sub.
13	Lost Person Found	M	MARY	Traffic Summons
14	Burglar or Hold-up Alarm	N	NORA	Non-Traffic Summons
15	Inhalator	O	OCEAN	Advised Legal Help
16	Fire	P	PAUL	Other Service
17	Escort	R	ROBERT	Arrest Made
18	Traffic Accident	X	X-RAY	Misc. Inc. Excep. Rpt.
19	Other Misc. Incident	Y	YOUNG	Animal Bite Info. Rpt.

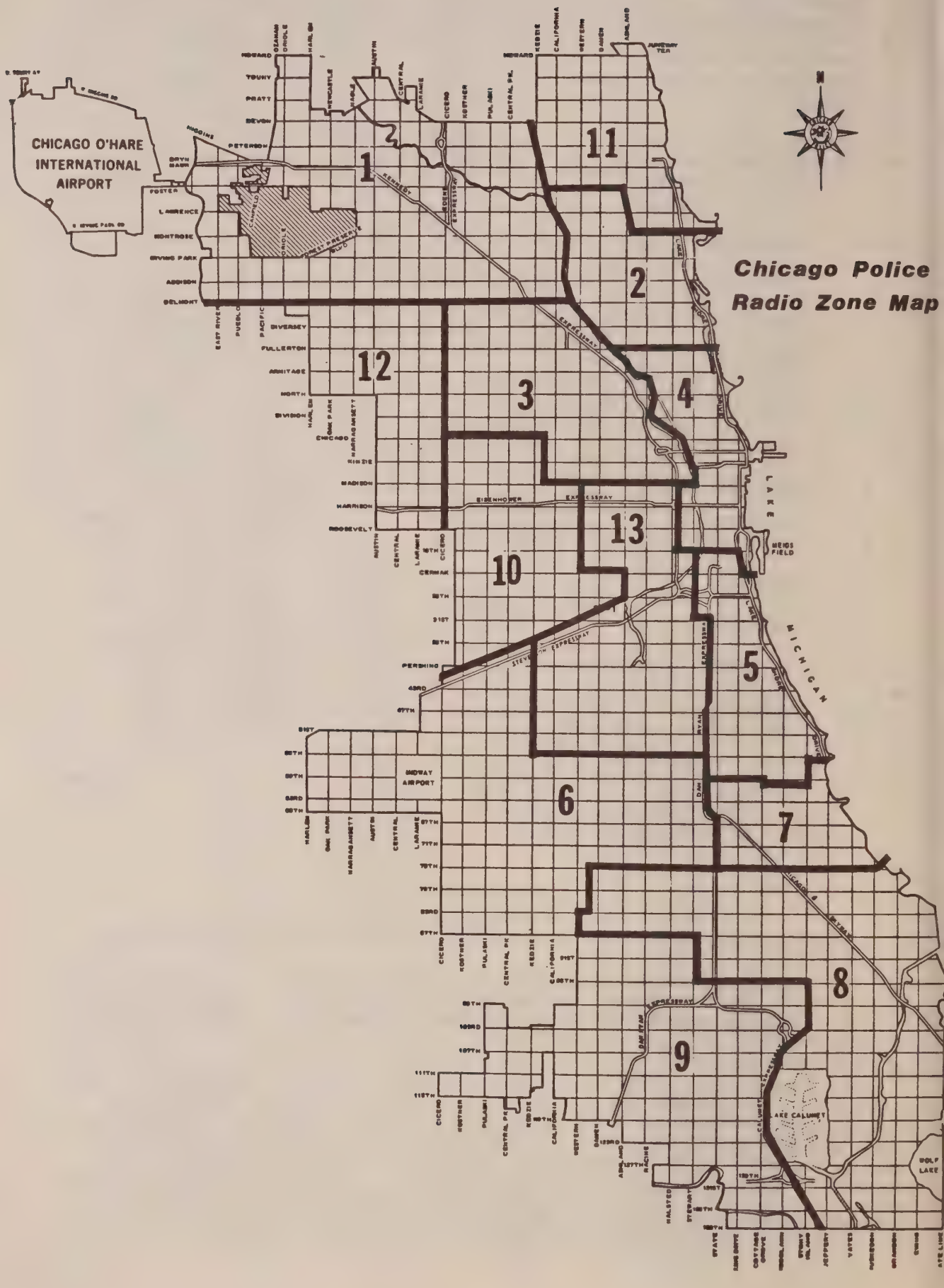
ZONE	FREQUENCY	DISTRICTS	AREA	DISTRICT ADDRESS
1	460.475	16 (Jefferson Park)	5	5430 W. Gale
		17 (Albany Park)	5	4461 N. Pulaski
2	460.050	19 (Belmont)	6	2452 W. Belmont
		23 (Town Hall)	6	3600 N. Halsted
3	460.225	13 (Wood)	4	937 N. Wood
		14 (Shakespeare)	5	2138 N. California
4	460.150	1 (Central)	1	11 E. 11th St.
		18 (East Chicago)	6	113 W. Chicago
5	460.500	2 (Wentworth)	1	5101 S. Wentworth
		21 (Prairie)	1	300 E. 29th St.
6	460.400	7 (Englewood)	3	6120 S. Racine
		8 (Chicago Lawn)	3	3515 W. 63rd St.
7	460.075	3 (Grand Crossing)	1	7040 Cottage Grove
8	460.200	4 (South Chicago)	2	2255 E. 103rd St.
		6 (Gresham)	2	819 W. 85th St.
9	460.025	5 (Kensington)	2	200 E. 115th St.
		22 (Morgan Park)	2	1830 W. Monterey
10	460.100	10 (Marquette)	4	2259 S. Damen
		11 (Harrison)	4	3151 W. Harrison
11	460.375	20 (Foster Ave.)	6	1940 W. Foster
		24 (Rogers Park)	6	6464 N. Clark
12	460.425	15 (Austin)	5	5327 W. Chicago
13	460.450	9 (Deering)	3	3501 S. Lowe
		12 (Monroe)	4	100 S. Racine

continued

SATELLITES

EDITOR NEEDED!

We need a new Satellites column editor effective immediately. The editor of this column should be familiar with satellite systems and communications and should be an active satellite monitor. The editor also should have a knowledge of the history of older satellite systems and be familiar with upcoming new systems. This editor would be required to generate most of the copy for this column. If you are interested, please TYPE a letter telling about yourself and qualifications to RCMA Managing Editor, P.O. Box 1119, Flemington, NJ 08822.


CHICAGO O'HARE INTERNATIONAL AIRPORT
Chicago Police Radio Zone Map
1
2
3
4
5
6
7
8
9
10
11
12
13
MIDWAY AIRPORT
LAKE CALUMET
MEIGS FIELD
GOLF
LAKE
MICHIGAN

In addition to the thirteen zone frequencies, there are seven city-wide frequencies. These seven semi-duplex "mobile relay" channels are for units which cover the entire city, rather than a specific district. The Traffic Division is an example of such coverage.

Zone dispatchers have the ability to simulcast a "crime in progress" announcement over various city-wide channels, thus alerting any city-wide units that may be in that particular zone in which the crime is occuring. The city-wide simulcast system also allows the zone dispatcher to relay messages and information from a district unit to a specific city-wide unit. For example: A district unit needs information about a crime investigated earlier by a Detective unit. The zone dispatcher will then simulcast the request for information from the Detective unit on the city-wide Detective channel (CW-2). Patrol cars have four channels, a primary and three city-wides-3,5 and 6. The following is a run down of the uses of the city-wide frequencies:

CITY-WIDE 1 (460.125) is in charge of dispatching the Traffic Division, Organized Crime Division, and the Bureau of Administrative Services. Traffic units, which include three-wheel motorcycles, radar cars and vehicle license units, are dispatched according to traffic beat boundaries represented on a large illuminated map of the city. This map is located above the city-wide 1 dispatch console.

CITY-WIDE 2 (460.175) controls communications for the Detective Division (Area Units) and the Special Operations Group (S.O.G.). S.O.G. includes Police Patrol Boats (Marine Unit), Canine Units, Mass Transit Patrol Unit and the Mounted Patrol in the parks.

The Marine Unit is responsible for patrolling the Chicago and Calumet Rivers and the Lake Michigan Shore line along the length of the city. The Marine Unit utilizes six patrol boats (M-1 Through M-6) ranging in size from 20 to 42 feet. Last year the unit handled 1,700 incidents while working in conjunction with the Coast Guard and Chicago Fire Department. Besides city-wide 2, the Marine Unit uses standard VHF Marine channels (16-156.800, 21-157.050, 22-157.100, 23-157.150) and their own special "Car to Car" frequency, 158.880.

The Mass Transit Unit patrols the elevated platforms and trains of the Chicago Transit Authority. These units have a radio identification of "L-Lincoln". To supplement these patrols, a new audio/video security system was installed at four rapid transit stations. Each station is equipped with nine closed circuit television cameras, push button alarms and emergency telephones. A control console in the Dispatch Center, monitors the TV cameras and has the ability to talk to citizens in the stations via loudspeakers and microphones.

CITY-WIDE 3 (460.275) is an alternate channel with several uses. Police units switch to this frequency to give detailed information for "Flash Messages" on criminal offenders, lost or kidnapped persons and stolen autos. Another use is for coordinating action and information between units of two different divisions and frequencies. Also, requests for police vehicle repair and maintenance are conucted on this channel.

CITY-WIDE 4 (460.325) handles communications for the Youth Division and the field units of the Criminalistics Division. These field units are the Evidence Technicians who gather evidence at a crime scene. The dispatch desk for city-wide 4 is located next to the desk of city-wide 2. At times, the dispatcher for either desk will handle radio traffic for both city-wide 2 and 4. The dispatchers voice is then simulcast over both city-wide frequencies, but the mobile units will only be heard on their assigned city-wide channel.

CITY-WIDE 5 (460.350) and CITY-WIDE 6 (460.250) are alternate channels for coordination of communications for disasters, riots and planned events, such as parades and festivals. If a zone transmitter should malfunction, the communications for that zone will switch to one of these alternates. Sometimes a Tactical Group will use an alternate channel to coordinate action with it's units.

CITY-WIDE 7 (460.300) provides communications for the Command personnel. In charge of the Command Communications is a Supervisor responsible for swift organization of large-scale field operations. The Supervisor must react to unusual emergencies by quickly contacting the appropriate Command personnel and specialized services that may be needed.

Since 1965, zone dispatchers have used computer inquiry terminals to provide information to patrol cars on suspicious vehicles or persons. In an effort to lesson the amount of time a zone dispatcher used for computer inquiries, many patrol cars were equipped in 1977 with mobile inquiry terminals. These Mobile Terminals gave hundreds of Chicago patrol cars instantaneous data from local, state, and national computerized files. The Mobile Terminal consists of a keyboard with electronic display. Inquiries made on the Mobile Terminal are converted to electronic signals which are sent via radio waves (800 MHz) to the Mobile Terminal's Control Computer in the Dispatch Center. Information from the appropriate data bank is then routed back to the patrol car in the same manner it was sent.

The following are some codes and abbreviations used by the Chicago Police Department:

10-1 - Officer needs help.
10-4 - Reply from a two man car. 10-99 - Reply from a one man car.
Code 1 - Use lights and siren. Code 2 - Use lights only.
UUW - Unlawful use of a weapon.
TVB - Traffic Violator for Bond.
R.D. Numbers - Records Division case report numbers.
Victor Units - The "Vertical Patrol" units assigned to the high-rise Cabrini-Green Housing Project (Zone 4).

For the past 20 years, the Dispatch Center has provided efficient and effective communications for Chicago's 12,500 police officers, 1,652 patrol cars, 1,377 unmarked cars, 179 patrol wagons, 208 motorcycles, 23 Canine Units, 14 prisoner vans and an assortment of other vehicles. Last year the Center answered 4,128,000 phone calls. That is an average of 11,000 calls a day.

contact/info wanted

This column has two purposes: to help members contact each other, and to help members obtain information directly from one another on various subjects related to 2-way communications monitoring. If you desire to converse, meet, or correspond with other members by telephone, letter, or cassette tape in a certain geographic area or with members who have similar listening interests, this is the perfect place for you to make your desires known. Remember--those who respond will do so directly, so be sure to provide your phone number, the best time to be called, or your address.

Write to: John W. Darr, P. O. Box 1652, Cheyenne, WY 82003-1652

MAPS NEEDED: Member wishes any and all state outline maps showing county/state police districts, etc. Will trade for similar Illinois map showing county outline and state police district boundaries. Guaranteed response! [2] [8-4-81]
RICHARD K BAUER (IL-173), 151 Algonquin, Park Forest, IL 60466 //
(312) 747-0547

INFO WANTED: Member needs full lists of police codes and knowledge of police FM frequencies. Send price and info. [8-14-81]
LUTHER L BRANCH (MO-ØØ1), 44 N Henderson, Cape Girardeau, MO 63701

AKRON OHIO AREA FREQS: Member looking for police and/or fire codes and frequencies for the Barberton, Cuyahoga Falls and other areas surrounding Akron, Ohio. He'll trade for codes/freqs he has. He'd also like to know if there is an R.C.M.A. chapter in Ohio, and if someone would send him the address. [9-3-81]
TOM EVERT (OH-Ø95), 51 E. Brookside Ave, Akron, OH 44301 // (216) 773-9207

PAGING NEW YORK, VERMONT, and MASSACHUSETTS MEMBERS: Capitol District, New York, area member wishes to meet or correspond with other New York, Vermont, and Massachusetts members. The goal is information exchange and possible formation of a local chapter. [9-4-81]
MARTIN TOOMAJIAN, Jr. (IL-139), 495 Brunswick Rd, Troy, NY 12180

CASSETTE SWAP? Future resident of Chino, CA, wants detailed info on San Bernardino County local government freqs and uses; private security companies in SB Co, Chino, and Ontario. Also railroad freqs for Santa Fe and Southern Pacific other than the road channels. Can exchange cassette tapes for his area. (9-23-81)
JOE M LEWIS (MD-Ø15), 3002 Gumwood Dr, Hyattsville, MD 20783 //
301-779-8374 10 a.m. - 8 p.m. EST M-F

FCC TOPICS

George DuBois, Editor

Send FCC news and information of interest relating to two-way communications above 30 MHz, as well as questions regarding the FCC Rules and Regulations, to: George DuBois, 10048 NE Campaign, Portland, OR 97220.

The Relay Press Radio Service

The Relay Press Radio Service is available to persons engaged in the publication of a newspaper or the operation of an established press association. (What I don't know is how long a press association has to be established to be established?) There aren't a whole lot of frequencies to choose from. In the VHF band there are a total of four. They are 173.225, 173.275, 173.325 and 173.375 mHz. Not only that, but those four are shared with the Motion Picture Radio Service. (Not that that is much of a problem in most places.) In UHF there are two channel pairs available, 452.975 and 453.0 mHz. The mobile frequencies are five mHz higher. Until 1958 the Relay Press service was also eligible for a number of UHF frequencies which were shared with other industrial services. When the channel spacing was reduced in all the bands it was decided not to allocate either any more VHF or any UHF channels because the "existing and anticipated usage does not justify the allocation..." Subsequently, of course, the two UHF pairs were allocated. And nowadays the 851 to 866 mHz band is available, too.

Associated Press has licenses in New York and LA, plus a few itinerant licenses and UPI has a few licenses in Washington, DC, but in this service for the most part you'll find outfits like the New York Times or the Podunk Gazette. Not only that but a lot of the times you'll find that it's the circulation department on the channel, peddling their papers, so to speak. If you do find their reporters

on the channel, it can make for some interesting listening. But, then again, sometimes they just give them mobile phones, which'll take a little more effort to find. And of course in cities where there are more newspaper and press organizations than there are Relay Press channels, they will undoubtedly be on Business Radio Service channels, which is a whole different ball game and will take even more effort to find.

P.S. It was brought to my attention that in the Oct. column on GMRS I neglected to mention the mobile-only channels available, which, of course, are five MHz above the 462 mHz frequencies. It just slipped my mind. What can I say?

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International

Richard Stein, Editor

This column is for reporting two-way communications frequencies above 30 MHz, radio system details, monitoring experiences, and any other information relating to monitoring in countries other than the United States and Canada. Send to: Richard Stein, 456 Barrymore Place, North Brunswick, NJ 08902.

A recent phone call brings addition insight in the reception in Northern Ireland of 102MHz signals at 67MHz.

As we reported earlier, both David (001-NIRE) and Pete (002-NIRE) have been receiving the local police transmissions on 67.1625 on the BC-220 and 67.0125 on the SX-200.(These are supposed to be on 101.9250MHz.) A possible explanation put forth is the following:

A knowledgeable police source says that the transmissions are made using twice the transmitting crystal of 45.6125 MHz. The IF of 10.7MHz is added to this signal giving an output of 101.9250MHz. (91.2250+10.7000).

It appears that the radios are picking up the first harmonic of 45.6125 and then are inserting twice the receiver's IF on the high side. For the SX-200 (IF=10.7) this would mean: 45.6125+ 21.4000= 67.0125. For the BC-220 it should be 45.6125+ 21.6000= 67.1625. In fact, all of these signals at this point are received .150MHz higher on the BC than on the SX. Does any one have any ideas why?

••••

A big thank you to Pete Glass for sending his plans for modification of the BC-220 as reported here a couple of months ago. I've forwarded these plans on to the proper editor and they should appear soon.

••••

I would like to hear from some more of our international members. There aren't many of you guys and I need what ever help you can give. That means sending information in on systems, frequencies, whatever.

Until next month.... שלום

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LAST MINUTE ADDITION: I've just received a letter from Pat Dyer, WA5IYX, an old friend and VHF column editor for our sister club, WFTDA. Pat just gave up the column after more than 10 very productive years at that post because of his health. He sends along the following info:

TRINIDAD: ID'ed•• 44.270 water
42.900 electric
43.910 electric

UNID'ed••(from a list by 9Y4JW who is also 8P6KX and who is trying to put together a more comprehensive list on both Trinidad and Barbados. This is exciting because it's the first solid information we've had on any Caribbean Islands.)

42.400 pest control
45.520 electric
48.750 fire

FEDERAL GOV'T and MILITARY

Robert B. Grove, Editor

Send all Federal Government and Military frequencies (including those of military aircraft), radio system details, and related questions to: Robert B. Grove, Route 1–Box 156, Brasstown, NC 28902. Sensitive frequencies will not be published. Coast Guard material must go to the VHF Marine editor.

What is IRAC?

In the United States, frequency assignments are made by two agencies: The FCC (Federal Communications Commission) for non-government, and IRAC (Interdepartment Radio Advisory Committee) for federal agencies. Virtually all frequency assignments and allocations discussed in this column are authorized by IRAC.

Nationwide Channel Allocations

Just as FCC assignees have some common frequencies throughout the country (162.400/.475/.550 NWS etc.) IRAC agencies share some frequencies in common. Recently, IRAC has authorized three wide area channels (163.100, 418.050 and 418.575 MHz) and three common user channels (168.350, 408.400 and 418.174 MHz).

A semi annual "report of the Interdepartment Radio Advisory Committee" makes notation of other items of interest to communications listeners.

(1) No fewer than eight federal government agencies are represented at the electronics site at Sandia Crest, New Mexico.

(2) All radar speedmeters operate on either 10525 or 24150 MHz. Serious consideration is being given to the 960-1215 MHz band for the introduction of the Joint Tactical Information Distribution (JTIDS).

(3) Ad Hoc group 89 was established to identify HF frequencies to be used by foreign diplomatic missions in Washington, DC.

(4) The frequency 518 kHz is being widely used by the European maritime Community for a navigational warning system; this system may become worldwide.

(5) The US Government master file of frequencies contains approximately 166,000 entries.

(6) The US Navy is the largest user of radio frequencies, comprising some 28,000 assignments.

More Flack On Sensitive Frequency Publications

A letter from Mike (IL-014) informs us that the Chicago chapter of RCMA oposes the publication of sensitive frequencies in our newsletter; some members also objected to the use of the Contact/Info wanted column for the solicitation of those frequencies.

They fear that such indiscriminate proliferation places RCMA in a bad "middle man" position.

RCMA is a difficult position; with Tom Kneitel's "Top Secret Registry" listing classified frequencies and agencies, and the International Telecommunications Union's (S) world wide distribution of US sensitive frequencies like our Border Patrol and FBI, one wonders just where we should draw the line and whom we are protecting.

.....and now on to this month's frequency contributions:

A guide From Doug (CA-SD 031) San Diego, CA

Army EOD and NUC Teams (Fort Rosecreans)	49.70
Army EOD and NUC Teams (Fort Rosecreans)	49.80
Naval Public Works	138.860
San Diego Naval Air Station	139.545
Naval and Marine Corps Intelligence	139.580
Navy Amphibian Base	140.000
Naval Training Center Security	140.040
Miramar NAS Secondary Crash Channel	140.100
Navy EOD	140.160
Navy Fire Crash Trucks	140.220
Naval Station Fire Department	140.460
Navy Amphibian Base Camp Pendleton	140.500
Camp Pendleton	140.520
Naval and Marine Corps Intelligence	140.640
Marine Corp Recruit Depot	140.700
Navy Tugs	140.760
Air Force MARS	(R)143.640
San Diego NAS	143.715
Air Force MARS	(R)143.950
U.S. Army MARS	(R)143.980
MCRD Fire Department	148.270
Navy Transportation Department	148.290
Naval Station PD	148.350
Navy MARS	(R)148.950
Camp Pendleton	149.010
Camp Pendleton (M.P)	149.090
Camp Pendleton	149.275
Camp Pendleton	149.300
Balboa Naval Hospital	149.350
NAB Security	149.360
Naval Weapons	149.370
Camp Pendleton Base Hospital - Emergency	149.450
Military Public Utilities	149.390
Naval Air Base	38.40
Camp Pendleton	149.500
Balboa Naval Hospital	149.550
Navy Shore Patrol	150.070
Army Intelligence	150.075
Camp Pendleton	150.090
Miramar Security	150.105
Navy Communication Station	150.390
Army Intelligence	150.675
US Army Corps of Engineers	(R)163.4125
US Army Corps of Engineers	(R)163.4375
Mt. Laguana Air Force Base	163.4875
US Post Office Transportation Division	162.225
Bureau of Indian Affairs	163.125
Bureau of Reclamation	163.175
US Marshal	(R)163.200
Internal Revenue Service	163.575
US Marshal	163.8125
Veterans Administration	164.175
Environmental Protection Agency	164.450
Interior	164.6125

US Post Office (Air Mail Delivery)	164.9125
US Post Office	164.9625
National Park Service	165.975
Interior	166.200
National Park Service	166.300
US Bureau of Land Managment (San Diego County)	(R)166.375
National Park Service	166.900
National Park Service	166.925
US Post Office	169.850
Cabrillo National Monument Park Rangers	171.750
US Forest Service (Cleveland)	(R)164.125
US Forest Service Southern Sone Intersystem	(R)166.5625
US Forest Service (Air Tactics) (A-1)	166.675
US Forest Service Air Dispatch	168.250
USFS Air Dispatch Aircraft Control	168.625
USFS Air Tactics-2 (A-2)	169.150
USFS Air Tactics-3 (A-3)	169.200
USFS Ground to Air (GA)	170.000
Forest Net Repeat	170.500
Forest Administration Net	168.150
USFS Region 5 (TAC-2) Fire	168.200

National Forest Air-To-Ground Networks

Forest	Dispatch Channel	Air Channel
Angeles	171.575	169.200
Cleveland	164.125, 168.750	166.675
El Dorado	171.525	166.675
Inyo	171.525	166.675
Klamath	164.175	166.675
Lassen	172.225	166.675
Los Padres	170.550	166.675
Mendocino	169.175	169.150
Modocs	168.750	169.200
Plumas	170.550	169.150
San Bernardino	171.475	169.150
Sequoia	168.775	169.150
Shasta	171.575	169.200
Trinity	164.800	
Sierra	171.400	169.200
Six Rivers	168.725, 168.750	169.200
Stanislaus	171.475	169.150
Tahoe	168.775	169.200

Thanks, Doug for a fine collection!

From John (WI) U.S. Coast Guard

Portsmouth	165.3375	Northwest	171.3375
Washington	409.2375	Crofton (RPTR)	418.0125
Crofton (RPTR)	416.475	Curtis Bay	407.125
Fort Macon	415.775	Cape Lookout	419.125
Cape Hatteras	419.800	Englehard	407.975, 165.3125
Milford Haven-Smith Point & Wolf Trap			415.625
Chincoteague	416.550	Ocean City	406.975
Chincoteague	417.000	Parramore Beach	407.975
Cape Hatteras	416.550	Oregon Inlet	409.000
Cape Hatteras	417.000	Ocracoke	406.800
Cape Hatteras-Diamond Shoals			407.625
Carolina Beach - Frying Pan Shoals			415.825
Curtis Bay	416.6375	Annapolis Bay Bridge	406.5625
Miami	171.2375	Perrine	165.2625
Tybee	171.375	Tybee Control Tower	165.275
El Yunque P.R	416.3875	St. Croix, V.I.	406.5625
El Yunque	416.9375	St. Thomas	409.0375
C. De Punta	415.775	Aquadilla	407.975

New Orleans Commcen 171.3375 ——— New Orleans Commsta 165.2625

Thanks, John.

As a special feature this month, we are pleased to present the following comprehensive list of Kennedy Space Center frequencies to commemorate the new age of Space Shuttle. Many thanks to Fred (FL-044) for this fine list.

KENNEDY SPACE CENTER

NET	FREQUENCY (MHz)	ASSIGNMENT
101	171.0000	Utilities
102	156.1875	Telemetrics/EMI
103	173.6875	Security
104	162.6125	Launch Support Ops.
105	173.6625	Safety
106	170.4000	GSA Supply
107	170.1500	Base Communications
108	170.3500	Public Affairs Hurricane OPS.
112	148.4550	SRB RCVY/HGR AF Cranes
113	149.1750	SRB RCVY/HGR AF Cranes
116	173.5625	Fire/Rescue
117	173.4375	Medical
201	171.1500	General Maintenance
203	173.1750	Security TAC
206	170.1750	Rail/Trucking OPS.
208	TX 158.940	Civil Defense
208	RCV 155.7150	Civil Defense
216	173.7875	Fire TAC
303	155.3700	Intercity Police Dept.
306	162.0125	Marine OPS.
316	154.1600	Intercity Fire Dept.
ETR 2	148.4850	Timing/Photo
ETRB	163.5125	Cape SRO
ETR D	163.4625	Cape Security
ETR F	163.5625	Cape Fire
KSC A	142.5000	O&C Crane OPS. (Net A)
KSC B	142.8600	O&C Crane OPS. (Net B)
KSC C	143.0400	O&C Crane OPS. (Net C)
KSC D	139.3000	Operational Loan Pool
KSC E	139.900	Operational Loan Pool
RAD HAZ	164.000	Radiation Monitoring
UHF 1	407.325	LC 39 OPS. Pool (Convoy CMD)
UHF 2	407.475	LC 39 OPS. Pool VAB Crane OPS.
UHF 3	408.150	LC 39 OPS. Pool (Convoy Purge)
UHF 4	408.175	LC 39 OPS. Pool Vab Crane OPS.
UHF 5	408.800	LC 39 OPS. Pool
UHF 6	409.050	LC 39 OPS. Pool Vab Crane OPS.
UHF 7	409.125	LC 39 OPS Pool
UHF 8	409.175	LC 39 OPS Pool Convoy Cooling
SLF VHF	121.750	Aircraft Ground OPS
SLF VHF	126.300	Air Ground Control
SLF UHF	259.700	Air Ground (Orbiter)
SLF UHF	296.800	Air Ground (Orbiter)
SLF UHF	284.000	Air Ground Control

SLF AM	243.000	Emergency (Mil)
SLF AM	121.500	Emergency (Commercial)
CT (OIS)	916.000	Crawler Moves
CT (OIS)	929.000	Crawler Moves
CT (OIS)	939.000	Crawler moves
NASA HF	3.385	Emergency Radio
NASA HF	3.395	Emergency Radio
NASA HF	6.9825	Emergency Radio
NASA HF	14.4555	Emergency Radio

Thanks again to our fine contributers for this month's column. How about a few more of you contributing your federal and military catches next month?

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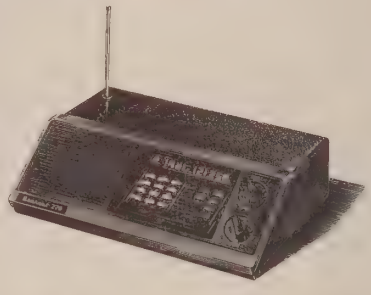

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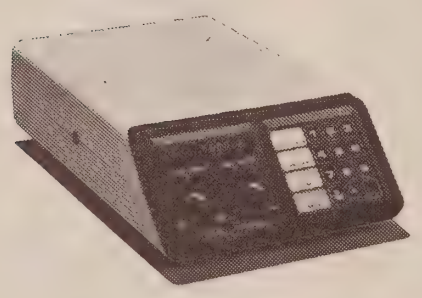

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MONITORING & THE LAW

EDITOR NEEDED!

We need a new Monitoring and the Law column editor. The editor of this column should have some familiarity with monitoring laws and it would be desireable if he/she had a collection of monitoring laws from around the nation. This editor would be required to generate some information for the column as well as organize input from the general membership. If you are interested, please TYPE a letter telling about yourself and qualifications to: RCMA Managing Editor, P.O. Box 1119, Flemington, NJ 08822.

COMMUNICATIONS ACT OF 1934
TITLE 47
SEC. 605. UNAUTHORIZED PUBLICATION OR USE OF COMMUNICATIONS

Except as authorized by chapter 119, Title 18, no person receiving, assisting in receiving, transmitting, or assisting in transmitting, any interstate or foreign radio communication by radio shell divulge or publish the existence, contents, substance, purport, effect, or meaning thereof, except through authorized channels of transmission or reception, (1) to any person other then the addressee, his agent, or attorney, (2) to a person employed or authorized to forward such radio communication to its destination, (3) to proper accounting or distributing officers of the verious communicating centers over which the communication may be passed, (4) to the master of a ship under whom he is serving, (5) in response to a subpena issued by a court of competent jurisdiction, or (6) on demand of other lawful authority. No person not being authorized by the sender shell intercept any radio communication and divulge or publish the existence, contents, substance, purport, effect, or meaning of such obtained communication to any person. No person not being entitled thersto shell receive or assist in receiving any interstate or foreign communication by radio and use such communication (or any information therein contained) for his own benefit or for the benefit of another not entitled thereto. No person having received any intercepted radio communication or having become acquainted with the contents, substance, purport, effect, or meaning of such communication (or any part thereof) knowing that such communication was intercepted, shall divulge or publish the existence, contents, substance, purport, effect, or meaning of such communication (or any part thereof) or use such communication (or any information therein contained) for his own benefit or for the benefit of another not entitled thereto. This section shell not apply to the receiving, divulging, publishing, or utilizing the contents of any radio communication which is broadcast or transmitted by amateurs or others for the use of the general public, or which relates to ships in distress.
As amended June 19, 1968 Pub.L 90-351, Title III, Sec. 803, 82 Stat. 223.

MONITORING: LEGAL AND PRACTICAL CONSIDERATIONS

If you'er in a landing craft five miles off the coast with several bales of marijuana in the hold, you might as well skip this section. We are going to discuss your responsibilitys as a scanner listener. The Pacific Northwest has few, if any, laws against owning

or mobile use of scanners. Other parts of the country are not so fortunate. And we doubt vary much if you could buy a publication like this in Moscow, U.S.S.R. Your behaveor wil reflect on all scanner owners. Bad incidents might prompt laws against mobile use of scanners or convince police and fire departments to scramble transmissions (your tax dollars!), lets keep on friendly terms. Help out when you can do so safely, but don't interfere. If there's a chance you may mess something up (i.e., a stake-out), don't even be in the area.

Those of you inclined to go look at what your'e listening to, remember the following:

OR-487 SEC. 640 FOLLOWING FIRE APPARATUS PROHIBITED

(1) A driver commits the offense of unlawfully following fire or emergency apparatus if:

(a) He follows any fire or emergency apparatus traveling in response to a fire alarm closer then 500 feet; or

(b) He drives or parks his vehicle in a manner which interferes with the fire or emergency apparatus responding to a fire alarm.

(2) Notwithstanding the provisions of subsection (1) of this section, a driver on offical fire-fighting, police or emergency business may follow within 500 feet of fire or emergency apparatus traveling in response to a fire alarm and drive into or park his vehicle in the area or vicinity where the apparatus has stopped in response to the alarm.

(3) A person who violates this section commits a Class C traffic infraction. (1975 c. 451 Sec. 107)

OR-487 SEC. 645 CROSSING FIRE HOSE.

(1) A driver commits the offense of unlawfully crossing a fire hose if he drives over unprotected hose of a fire department laid on any highway, private road or driveway to be used at any fire or alarm of fire, unless he first obtains the permission of a fire department official or a police officer at the scene of the fire or alarm of fire.

(2) Unlawfully crossing a fire hose ia a Class C traffic infraction. (1975 c.451 Sec. 108)

Other states have similiar statutes. One of the biggest problems police have at scenes of emergencies is people showing up and parking vehicles that block emergency equipment. A car left in the wrong place can cause needless minutes of delay. If you're asked by a police officer to leave the scene of an arrest or an area that is a threat to public health or safety, then do so. (Portland City ordinances 14.08.140 & 14.24.170 - the district attorney can give you a full reading.).

Marketplace

Gary M. Darcy, Editor

Members may advertise, free of charge, items wanted, items for sale, and items for trade that are associated with the hobby of monitor/utility radio listening. No dealer ads will be accepted for this column. RCMA assumes no responsibility for the outcome of any transactions between members resulting from ads printed in this column. Send to: RCMA MARKETPLACE, c/o Gary M. Darcy, P.O. Box 1329, Palmdale, CA 93550. Please be sure to include your membership number.

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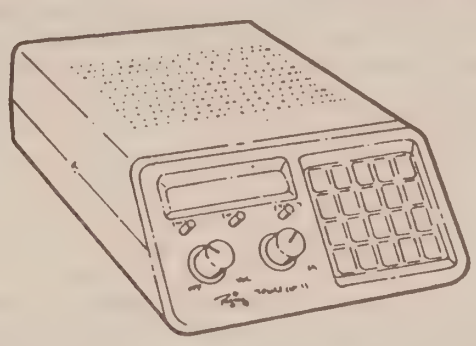

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Public Safety

This column is for reporting Public Safety and Special Emergency frequency information, radio system details, radio codes, dispatch areas, unit numbering systems, etc. for police, sheriff, fire forestry (except USFS), fish and game, highway patrol, state police, prisons, prisoner work camps, local government, highway and street maintenance, port authority/ bridge maintenance, animal control, ambulances, paramedics, hospitals, life guards, ski patrol, search & rescue, flood control, civil defense and disaster organizations. Input and questions for this column must be sent to the proper regional editors of Public Safety, who are listed below.

PUBLIC SAFETY - EAST

Send Public Safety and Special Emergency frequencies, radio system details, and questions for Connecticut, Delaware, District of Columbia, Florida, Georgia, Maine, Maryland, Massachusetts, New Hampshire, New Jersey, New York, North Carolina, Ohio, Pennsylvania, Rhode Island, South Carolina, Vermont, Virginia, and West Virginia to : Richard Barnett, P.O. Box 428. Newton Highlands, MA 02161.

NO COLUMN THIS MONTH

PUBLIC SAFETY - CENTRAL

Send Public Safety and Special Emergency frequencies, radio system details, and questions for Alabama, Arkansas, Iowa, Kansas, Kentucky, Louisiana, Michigan, Minnesota, Mississippi, Missouri, Nebraska, North Dakota, Oklahoma, South Dakota, Tennessee, and Texas to: Mike Redman, P.O. Box 1177, St. Charles, MO 63301

Send material and questions for Illinois, Indiana, Wisconsin and Michigan to: John Arendt, 327 Boulder Hill Pass, Oswego, IL 60543.

Greetings! Glad to have you reading here at the PS-Central columns as we close out 1981. Best of Holiday Wishes from myself, Ken, and John, and may you find that new Bearcat 100 under your Christmas tree. As I write this in late September, the RCMA election campaign is just about over. I'm not sure how I did even though I'll know by the time you read this. Probably very few of you really know how much time and effort goes into the Newsletter- not just what we editors do, but the time consuming paste-up, printing, stapling, and mailing process. It's this hard work that takes time that delays what I write until December. But when you look though this professional publication, isn't it worth it?

One of our local members mentioned that he had just cancelled his subscription to a monthly automotive-type magazine that printed a lengthy story on those terrible Police personnel who run radar. It suggests the use of radar detectors, which is out of the spectrum of this publication, but goes on to exploit monitor radio as a means to locate Police radar. Now the concept is probably valid, but this is the kind of B.S. that gives monitor radio a bad name. Detecting Police radar is one of the poorest uses of C.B. radio and is one of the many uses that has given citizens band such a bad name today. But that's another can of worms. On the lighter side I just read an article in Communications News magazine on Monitoring. The article was a reprint of a speech given before a recent APCO convention by Eric Schimmel of Electra, and if I can get permission, I'll have it reprinted here. Mr. Schimmel spoke of the usefulness of monitor receivers to the Law Enforcement community, both by the officers themselves and by the general public.

Along the same line I read an article in the Newsletter edited by the Missouri State Highway Patrol regarding monitoring. It told of a broadcast of wanted subjects made over Troop Radio. A citizen heard it on his receiver, then noticed the wanted subjects' auto a short distance away. He telephoned the nearest Troop Headquarters and the subjects were apprehended. The citizen, of course, took no action himself other than to find a phone.

On to a multitude of fine articles by our readers...

MISSOURI:

December is upon us, and if wooly worms are any indication, it will be a cold and snowy winter. I'll briefly summarize the channels used statewide in Missouri for snow removal: 151.040, 151.070, and 151.130. There. The system map and breakdown appeared in the 12/80 Newsletter. We have spoken already about the moves of the Missouri State Patrol's repeaters to UHF. Member GARY (MO-025) HOFFMAN on a recent excursion to the Mexico Missouri area reports the old VHF repeater at Martinsburg off the air and gone from the pole it used to reside upon. Gary hears strong signals on 456.525 in and near Mexico, but the exact location is unknown. This repeater repeats signals from 42.32, and as such serves Troop F (Base on 42.12). So sensitive is this repeater's low band input that it was receiving some Troop C (St. Louis County) 'Metro' cars. Gary would also like to know if anyone knows the new Barnes Hospital Security channel (Hospital located in St. Louis, formerly on 155.325 Mhz.)

KANSAS:

As December and winter descend upon us, Kansas tends to have worse winters than Missouri, so BOB (KS-001) RANKIN has provided us with the Kansas Highway Patrol Weather Signals:

1. Clear
2. Overcast
3. Roads Dry
4. Roads Wet
5. Raining
6. Mist
7. Light Snow
8. Heavy Snow
9. Heavy Snow and Drifting
10. Fog
11. Windy (Over 20 MPH)
12. Blowing Dust
13. Roads Snowpacked
14. Roads Snowpacked in Spots
15. Icy
16. Icy in Spots
17. Roads Slushy
18. Roads Sanded
19. Blizzard Conditions
20. Roads Closed
21. One Lane Traffic Only

KENTUCKY:

Several contributions from TRACY (KY-026) TURNER on Kentucky, and Harlan County including a State Patrol code:

Harlan County Emergency Rescue Squad	45.920
Harlan County Rescue Squad Pagers	155.745
Harlan County PD	45.560
Harlan County Sheriff	45.500
Appalachian Regional Hospital	155.340
Statewide Utilities	48.300
Telephone Utilities	451.350
Kentucky State Police District 10:	453.600/458.600, 44.62, 155.790, 453.300, 44.78

State Patrol Administrative Signals:

Signal 1 Officer's Residence	Signal 6 Phone___at_____
Signal 2 Meet at location___	Signal 7 Officer in Distress
Signal 3 Any traffic for this unit?	Signal 8 Disregard
Signal 4 Report to your post	Signal 9 Emergency
Signal 5 Meals	Signal 10 Confidental Message

Ten Codes:

10-1	Receiving poorly	10-25	Do you have contact with___
10-2	Receiving well	10-28	Check full registration
10-3	Stop Transmitting	10-29	Check for want or steal
10-4	O.K.	10-30	Does not conform to rules
10-5	Relay	10-32	Is breathalyzer available
10-6	Busy	10-35	Confidential information req.
10-7	Out of service	10-36	Correct time
10-8	In service	10-37	Operator on duty
10-9	Repeat	10-45	Accident, property damage
10-10	10-7, subject to call	10-46	Accident, personal injury
10-11	Dispatching too fast	10-47	Registration without ID No.
10-12	Officials present	10-49	Payroll checks
10-13	Advise weather cond.	10-50	Expense checks
10-14	Convoy or escort	10-66	Clear for cancellation
10-15	Prisoner in custody	10-70	Net message
10-16	Pick up prisoner	10-88	Your phone number?
10-18	Complete assignment	10-97	Arrive at scene
10-20	What is your location	10-98	Finished present assignment, Ready for traffic
10-21	Call by phone		

TEXAS, LOUISIANA, MISSISSIPPI, OKLAHOMA, ARKANSAS:

Once again Ken Pehl comes through with more exciting information from Down South where I guess they don't get quite as much Snow and Ice as we do in Missouri and points North, but none the less Ken speaks a bit on winter monitoring. Don't forget that if you live in the states shown above, send your monitoring information and questions to Ken at 108 E. Centre St., Fredericksburg, TX., 78624.

It is somewhat difficult to get into the mood of the season since it is only September as I write this but anyway Happy Thanksgiving if I am not too late for that already and Happy Holidays for the December festivities.

The mail bag is a bit light this month so let me take the opportunity to list some important reminders:
---once again Ed Lentz, TX-45 (1211 Vince St., Pasadena, TX 77506) is still looking for input to compile a confirmed frequency list of Texas and surrounding state areas. Please give him your support. All who submit material will receive a copy of the composite list. This list hopefully will be a useful device for vacation travel time next spring and summer. So get out your pens and start writing Ed!
---while you are writing-make up a batch of SASE's and send them to the RCMA's Dallas/Fort Worth Metroplex Chapter c/o Larry Van Horn, 1111 N. Carrier Pkwy, Apt. #B-107, Grand Prairie, TX 75050. These SASE's will bring you the chapter's regional newsletter as they are published. Only those with SASE's on file will receive this service.
---and last but not least--drop me a line with your listings of highway maintenance frequencies for that winter monitoring guide I talked of getting assembled last month. I have just been informed that the December issue is traditionally the highway maintenance listings time. Well, we wouldn't dream of breaking tradition so here is all I have so far: State of Texas Highway Maintenance nets for the TX Highway Dept.-- 47.180 ch A base/mobile, 47.060 ch B base/base. FCC licenses show the state licensed for 47.020 & 47.080 in certain areas of the state only, plus licensed statewide for the frequencies 151.025, 151.055, and 156.135. Useage and activity of the latter frequencies are unknown and are actively sought. Our DFW chapter informs us that the Texas Turnpike Authority has a repeater for the Dallas North Tollway and coordinates with the Texas DPS on 157.350 rptr out/151.130 rptr input.
Don't let this stop you from sending in your valuable input to this forthcoming column list. Why don't you do all writing before the postal rate increase!

From Ed Lentz, TX-45: Ed sent in a newspaper clipping that indicates the Houston PD has been and continues to experiment with mobile display terminals (MDT's). For those unfamiliar with MDT's, they basically look similar to a computer terminal one would typically find in an office using such equipment. They have a key board and a video display ("TV screen"). About the only difference from an office computer terminal is that the MDT's are mounted in a vehicle and use a radio channel for its link to the central computer. The most widely used purpose of MDT's in PD vehicles are for running wanted and warrant checks, vehicle registration and driver records, criminal record/history, etc. directly from the vehicle rather than through a dispatcher and voice frequency. By using MDT's, the normal voice channels can be freed for other more urgent messages. The one big drawback is expense, but with more and more congestion taking place every day, MDT's are being looked upon as a means to lessen congestion and lower the cost of adding additional voice channels in the long run. Ed informs us that HPD is using 453.700 at this time for their MDT's operation. If you listen in to this frequency, you hear a rapid series of digital bursts for the transmission, nicknamed "turkey call", if I recall correctly. To decode it would require an MDT of your own. Space-aged monitoring here we come!

Now if you are thinking that was bad news for monitoring fans, wait until you hear the next part. Ed also informs us that HPD is rumored to be studying the possibility of going to 800 MHz with trunking capability. In case the full impact of that statement has yet to penetrate, let me attempt to explain what "trunking" is all about. Trunking is a rather sophisticated method that would require pages and pages to properly explain, but for this purpose let me simplify it to saying trunking can be compared to the IMTS mobile phone method of searching for a 'not-busy' frequency from among the channel frequencies allocated to that user with each channel to be used at any given moment to be selected on a non-busy (at that instant) basis by a computer and that frequency used only for the length of that conversation. Each channel, in other words, is not dedicated to a specific group of users (like the detectives, for example) or a certain area of coverage (like a certain patrol sector) as is the case in conventional 2-way systems we normally monitor, but rather is a group of frequencies used essentially at random depending upon busy/not-busy conditions with the system wired as such so as to allow each group of users within the system listen capability. That is to say, for example, a certain patrol sector will always automatically hear the activity of that sector's activity no matter which channel the computer selects to be used for that moment's frequency use. This technique should not be confused with digital scrambling or any other type of scrambling such as spread spectrum techniques, although there is nothing to say that scrambling could not be implemented, if desired.

From Jim Faulk, MS-6: Some time back Jim submitted an excellent article on the Mississippi Highway Patrol. During my recent house annex project several of my files had to be stored away, Jim's article being among these, thus causing a delay in publication while the files were temporarily mislaid. My apologies to Jim and you the reader for this delay in publication. Without further ado, take it away Jim!

MISSISSIPPI HIGHWAY SAFETY PATROL

The Mississippi Highway Safety Patrol (MHP) was orgainized in 1938 and has as its primary function the enforcement of traffic laws on State and Federal highways outside of municipalities. They are not a state police agency, although state law provides that municipal and county enforement agencies may request their assistance in emergency or unusual situations. In addition to the normal highway patrol functions, they have a Drivers License Examinors division; an Aviation division (fixed and rotor wing aircraft); a Criminal Investigation division which is charged with enforcing certain state laws and is available to assist local agencies as requested; and a Security division which provides protection for the governor and other state officials. The MHP also operates the Mississippi Law Enforcment Officers' Traning Academy

in Jackson for training local police and sheriff's officers from over the state, as well as their own officers. The Patrol presently has 590 sworn personnel, including the 42 cadets graduating in December 1980, a class which included three female officers, the first in the Patrol's history.

ORGANIZATION

MHP Headquarters is located in Jackson and the state is divided into nine districts, including Jackson and eight substations. Command structure consists of Lt. Gen. Sidney B. Berry, USA (Retired), Commissioner of Public Safety; Chief of Patrol Donald Butler; and a Chief Inspector for each of three regions (North, Central and South). Each district is commanded by an Inspector and supervised by four or more Deputy or Assistant Inspectors. Other officers carry no rank or title other than Patrolman. Below is the pertinate information on the Patrol districts and their paired duplex ("A") channels used for dispatch purposes:

DISTRICT	LOCATION	CALL	DISTRICT FREQ (BASE/MOBILE)
1	Jackson	KKA929	42.12 / 42.18
2	Greenwood	KKD317	42.16 / 42.24
3	Batesville	KKB244	42.08 / 42.30
4	New Albany	KKC476	42.16 / 42.24
5	Starksville	KKB973	42.12 / 42.18
6	Meridian	KKB238	42.08 / 42.30
7	Hattiesburg	KKA982	42.16 / 42.24
8	Gulfport	KKC477	42.12 / 42.18
9	Brookhaven	KKC475	42.08 / 42.30

Stations also have the ability to operate simplex on 42.02 ("B" channel), the statewide car-to-car freqency; the statewide Sheriff's Office (SO) Net on 45.22 ("C" channel); the statewide Police Net on 155.490 ("D" channel); and apparently on MHP frequency 42.12 ("E" channel?) for station-to-station back-up, although this is heard infrequently. Headquarters in Jackson may also have the ability to use all "A" channels. Stations have the capability of transmitting on all these channels at once, such as for all-points "10-67" traffic. The channel letter is usually used as a suffix with the call sign to denote which frequency is being used (KKA982A, KKB238C, etc). Mobile units apparently use four channel radios for the 42.02 car-to-car and the three district frequency pairs. This enables them to communicate with adjoining districts when on normal assignment or when operating in another district on temporary assignment. Mobile units also have 45.22 receivers for direct communication with police department and SO bases (and SO mobile units) utilizing a 42.02/45.22 duplex arrangement, these bases and SO mobiles having 42.02 receivers. All police departments operating in the VHF-Hi band and most of their mobile units apparently now have 155.490 capability, and this frequency is used for most communications between MHP stations and those PD bases. The main weakness of the system is the lack of direct communications between MHP patrol units and PD cars having only VHF-Hi radios, which is the case in most larger municipalities.

UNIT DESIGNATORS

Unit designators consist of a letter-number combination, and are assigned to individuals rather than to cars. The letter denotes the function of the unit.

A - Command/HQ/Admin
B - Investigators
C - Dist. 1 Patrol
D - Dist. 2 Patrol
E - Dist. 3 Patrol
F - Dist. 4 Patrol
G - Dist. 5 Patrol
H - Dist. 6 Patrol
I - Not used
N - Licenses Examinors
O - Not used
P - Radio Oprs/Tech
Q - Not used
R - Supply (?)
S - Security
T - Not used
U - Intoximeter Maint.
V - Not used

J - Dist. 7 Patrol
K - Dist. 8 Patrol
L - Not used (?)
W - Air units
X - Air units (?)
Z - Not used

Examples: Unit "J-John-41" would be a patrol unit assigned to District 7; Unit "W-William-1" would be an Air unit; Unit "B-Boy-14" would be an investigator. Department heads and district inspectors are designated by letter only (Units C-Charles, P-Paul, etc.). Unit "A-Adam" is the Commissionor of Public Safety; unit "A-Adam-1" is Chief of Patrol. Within districts, numbers 1-4 are assigned to supervisors, with remaining numbers assigned as available.

All information above has been compiled by me from personal observation and public sources such as TV and press articles. Doubtful information has been indicated by (?). Any corrections or additions will be greatly appreciated.

Very, very fine article, Jim! This is just exactly what the doctor ordered! We definitely need more input like this for the numerous wide area systems in existance in this area of column responsibilities. That is a hint, folks! Jim, we will be looking forward to hearing more from you in the future.

From John, MS-17: Also from the Mississippi area comes this report for the Central Mississippi area.

Central MISSISSIPPI FREQUENCIES

Municipal PD dispatch channels:

Hazlehurst	45.46	Greenwood	155.250
Crystal Springs	155.310	Winona	45.10
Brookhaven	155.250	Pearl	155.685
Vicksburg	155.790		

County Sheriff Depts dispatch channels:

Copiah Co. (Hazlehurst)	45.140	Hinds Co. (Jackson)	45.180
	45.260	Montgomery Co. (Winona)	45.100
Carroll Co. (Carrolton)	45.180	Lincoln Co. (Brookhaven)	45.100
	45.300	45.22=MS statewide Sheriff mutual aid	
LeFlore Co. (Greenwood)	45.140		

Fire Depts:

Jackson FD	453.50	Greenwood	154.430
	453.85	Pearl	154.220 (rptr? or B/M?)
Hazlehurst	154.415	Hinds Co. FD	155.745
N.Carrolton VFD	154.130		

(ed. note: there appears to be a fire mutual aid frequency of 154.160. Can anyone confirm or comment?)

EMS/Ambulance/Hosp.

Hardy Wilson Mem. Hosp. (Hazlehurst) 155.265
Talazoo Amb. Svc. (Greenwood) 155.220
city of Jackson EMS 155.400

(ed. note: there appears to be a hosp/amb. net of 155.340. I assume this is, or is similar to, the HEARS nets that are in operation in a number of other states.)

Misc. frequencies:

Jackson Emergency Operating Center ---47.46
Mississippi statewide forestry channels---151.145 and 151.355

John also notes the active use of the following frequencies for the city of Jackson, MS Police Dept without further details: 460.050 460.200 460.100 460.250 460.150 460.350

If anyone can give channel useage details or area covered, please write in! Fine list, John. Keep on writing in. I might add that as I paged through the Mississippi listings in my trusty POLICE CALL volume I noticed several frequencies that seemed to be common to almost all areas, some frequencies of which either Jim or John covered but there are some still not covered. Could someone out there prepare and submit an authoritative article for publication to cover these statewide mutual aid type frequencies?

In closing this column let me add if you have not seen your area represented in this column, it probably is due to your lack of input. Write in so the ole mail bag will be full next month. Also I would like to again thank Jim Faulk for his excellent article and Ed Lentz for his consistent contributions. That's it for now, see you again next time.

ILLINOIS, INDIANA, WISCONSIN, MICHIGAN:

Greetings from Oswego. As of this writing, several interesting fall tours were in the planning for the Chicago Area Chapter (more on that later). Next month's column will have the 1982 meeting dates (and a summary of the Sept. 27th session) for the Chicago Chapter.

Well, here we are with the winter and holiday season upon us once more. Last year's "dream gift" of a DVP unscrambler didn't become a reality (let's not count that out yet), but a nice substitute in the form of a synthesized hand-held scanner should be filtering down into members' hands. (Remember - this column has been written several months in advance). So my wishes for a happy holiday season are in order.

With the winter months here, there's no better way to get this column off to a soaring start than by covering the state and county highway maintainence (road commission) freqs. for the area that I'm responsible for.

I had to rely heavily on the FCC microfiche and some old Action Radio computer runs for this data. Since I did not receive any real "member input" over the last few months (outside of the MI area), some of this material has also been taken from older issues of the "Newsletter". Credit will be given where appropriate. Not all of the freqs. may be correct. (High band rptr. input and output freqs. may be reversed in some cases. In some cases the contributor didn't know the difference between input and output freqs.)

I don't plan on repeating this data next year at this time due to the lack of contributions, available newletter space, etc. If additions and corrections are in order, please forward them for publication.

ILLINOIS Detailed contributions were received from Ed (IL-004), Tom (IL-030), Rich (IL-173), and Mike (IA-011). Other contributions were received from Dick (IL-129) and Jack (ex CA-OR-118).

State of Illinois-outside of the Chicago area: A two-frequency 47MHZ system with PL tones is used.

Dist. - Location	Base-Mobile	Mobile-Mobile	Tone
1 - Schaumburg	47.30	47.38	110.9
2 - Dixon	47.14	47.38	110.9
3 - Ottowa	47.14	47.38	123.0
4 - Peoria	47.30	47.38	123.0
5 - Paris	47.34	47.30	110.9
6 - Springfield	47.38	47.30	110.9
7 - Effingham	47.38	47.30	123.0
8 - Fairview Heights	47.34	47.30	123.0
9 - Carbondale	47.30	47.38	110.9

State of Illinois - Chicago area: Uses high-band VHF and UHF rptr systems.
150.995 out (156.120) Expressway Maintainence
151.070 out (156.060) Expressway Patrol Vehicales
151.100 out (156.045) Expressway Patrol Vehicles
453.700 out Simulcast of 150.995
Illinois Tollway System: Four UHF rptr. freqs. are used: F1=453.250, F2=453.300, F3=453.800, F4=453.625. (A detailed explanation will follow the highway freqs. for the 4 states)

County Highway Depts. (No "listings" were found for the following counties: Adams, Alexander, Brown, Bureau, Calhoun, Champaign, Clark, Coles, Cumberland, Douglas, Edwards, Fayette, Franklin, Gallatin, Hamilton, Hardin, Henderson, Iroquois, Jersey, JoDaviess, Lee, Macoupin, Massac, Monroe, Pope, Wabash, Warren, Washington, and Williamson):

Bond	151.055	Menard	33.06
Boone	151.085	Mercer	159.165
Carroll	156.12	Montgomery	150.995
Cass	37.98	Morgan	151.115 out (156.075)
Christian	156.24 out (159.12)	Moultrie	156.195
Clay	159.12	Ogle	156.105 out (159.000)
Clinton	37.9 0	Peoria	453.400 rptr
Cook	453.750 rptr,453.950 rptr	Perry	151.055
Crawford	156.18	Piatt	453.500 rptr
DeKalb	159.12, 159.18	Pike	151.085
DeWitt	151.115	Pulaski	150.995
DePage	37.96	Putman	150.995
Edgar	33.10	Randolph	37.94
Effingham	151.130	Richland	151.055
Ford	37.90	Rock Island	154.98
Fulton	159.135 out (156.045)	St. Clair	45.80
Greene	156.24	Saline	159.18
Grundy	45.72	Sangamon	159.12
Hancock	156.24	Schyuler	151.025 out (159.015)
Henry	156.18 out (159.015)	Scott	33.06
Jackson	156.06	Shelby	159.18
Jasper	159.135	Stark	156.195 out (159.045)
Jefferson	151.025 out (156.06)	Stephenson	151.025
Johnson	151.085	Tazewell=	453.050 rptr
Kane	45.76	Union	151.025
Kankakee	151.055	Vermillion	156.18 out (159.06)
Kendall	45.84	Wayne	156.24 out (150.075)
Knox	159.12 out (156.075)	White	151.115 out (156.045)
Lake	453.850 rptr	Whiteside	45.72
Lasalle	45.68	Will	155.76 out (153.80)
Lawrence	37.98	Winnebago	151.010
Livingston	453.050 rptr	Woodford	156.12 out (159.00)
Logan	151.085	Madison	453.450 rptr
McDonough	453.800 rptr	Marion	159.18
McHenry	37.98	Marshall	156.18 out (159.075)
McLean	151.010 out (156.045)	Mason	45.68
Macon	151.130 out (156.12)		

INDIANA Detailed contributions were received from Dave (IN-002), Mark (IN-014), and Jeff (KY-023). A smaller contribution was received from Jim (IN-034).

State of Indiana. Two freqs. 47.28 and 47.36 are used statewise. FCC license data shows an additional freq. of 47.32 available for use-primarily in the southern part of the state.

County Highway Depts. (no frequencies were found for Adams, Brown, Clark, Crawford, DuBois, Fountain, Harrison, Jackson, Jay, Johnson, Lake, LaPorte, Marion, Martin, Montgomery, Noble, Ohio, Perry, Pike, Scott, Switzerland, Tipton, and Vigo Counties):

Allen	151.130 out (159.06)	Madison	156.105 and 159.045?
Bartholomew	151.085base/159.075 mob.	Marshall	37.90
Benton	151.085 out (159.00)	Miami	156.18 out (159.00)
Blackford	151.04 out (159.18)	Monroe	155.04
Boone	159.18	Morgan	37.94
Carroll	159.135 out (156.075)	Newton	159.18 out (156.165)
Cass	151.025 out (??in)	Orange	159.135
Clay=	151.07	Owen	151.04 out (159.045)
Clinton	156.24 out (159.105)	Parke	151.115 out (??in)
Daviess	151.055	Porter	151.04 out (158.985)
Dearborn	151.115 out (156.18)	Posey	151.01

Decatur	(??out) (156.198)
DeKalb	156.12
Delaware	151.04 out (158.985)
Elkhart	159.12 out (156.105)
Fayette	159.165 out (156.045)
Floyd	151.04 out (159.18)
Franklin	151.01 out (156.06)
Fulton	156.24
Gibson	45.84
Grant	156.12
Greene	156.24 out (159.195)
Hamilton	151.01 out (159.075)
Hancock	151.07 out (159.015)
Hendricks	151.13
Henry	151.025
Howard	150.995 out (159.06)
Huntingdon	150.995 out (156.045)
Jasper	156.18base/159.045mob.
Jefferson	159.12 out (151.055)
Jennings	151.13
Knox	150.995
Kosciusko	159.195out (156.075)
LaGrange	156.165 out (159.00)
Lawrence	151.01 out (158.985)
Pulaski	151.10 out (159.045)
Putnam	159.165 out (156.045)
Randolph	151.01 out (159.12)
Ripley	156.105
Rush	150.995 out (159.00)
St. Joseph	453.750 rptr?/37.98
Shelby	151.10 out (156.135)
Spencer	156.195 out (159.12)
Starke	156.165 out (159.015)
Steuben	37.94
Sullivan	?? out (159.00)
Tippecanoe	151.01 base/159.015
Union	159.105 out (156.075)
Vandenburgh	156.12 out (159.18)
Vermillion	156.135?
Wabash	151.055
Warren	151.04 out (158.985)
Warrick	156.165 out (151.04)
Washington	156.225
Wayne	151.085 out (159.015)
Wells	151.085
White	151.055
Whitely	159.18

WISCONSIN A very detailed contribution was received from Walter Berkovitz (WI-009). Smaller contributions were received from Bob (WI-001), Bob (WI-003), George (WI-004), Tom (WI-006), Ernest (WI-024), and Mike (IA-011).

State of Wisconsin. In the Milwaukee area, mobiles and "controls" are found on 47.32 with everything being repeated on 151.04. An extra mobile freq. of 47.40 is reportedly available. Away from the Milwaukee area, radio information is unknown. Arrowhead Bridge Authority: 453.475

County Highway Depts. (no frequencies were found for Doughlas, Dunn, Iowa, Juneau, Lincoln, Polk, Richland, Rock, Sawyer, Taylor, and Waupaca Counties):

Adams	45.68
Ashland	??out (158.985)
Barron	159.12 out (156.075)
Bayfield	151.01 out (159.045)
Brown	151.13 out (156.06,159.000?)
Buffalo	151.085 out (159.06)
Burnett	156.165 out (159.075)
Calumet	151.10 out (159.075)
Chippewa	??out (156.12)
Clark	151.18, 156.18, 159.18?
Columbia	151.025 out (159.000)
Crawford	156.12 out (159.06)
Dane	151.055 out (156.12)
Dodge	151.115 out (156.06)
Door	45.48
Eau Claire	45.76
Florence	37.18
Fond Du Lac	151.055 out (156.12)
Forest	39.98
Grant	150.995 out (159.06)
Green	156.18 out (159.075)
Green Lake	156.075 out (159.12)
Iron	151.025 out (??in)
Jackson	159.135 out (156.12)
Jefferson	156.24 out (158.985
Kenosha	151.055 156.105
Kewanee	151.085 out (??in)
LaCrosse	151.025, 159.00?
Lafayette	153.80
Marathon	151.10,156.075,159.18?
Marquette	151.085 out (159.075)
Menominee	37.92
Milwaukee	453.775 rptr
Monroe	??out (156.06)
Oconto	151.055,156.12,156.06,159.000??
Oneida	39.82
Outagamie	150.995 out (159.06)
Ozaukee	159.075 out (156.075)
Pepin	37.84
Pierce	159.135
Portage	151.01
Price	45.68
Racine	45.72
Rusk	151.13 out (159.015
St.Croix	156.225 out (159.015)
Sauk	159.18 out (156.045)
Shawano	156.225, 159.135??
Sheboyagan	151.025 out (159.000)
Trempeleau	45.72
Vernon	37.90
Vilas	37.90
Walworth	33.02
Washburn	151.085 out (159.000)
Washington	151.130 out (156.195)
Waukesha	150.995base/159.06?
Waushara	156.24 out (158.985)
Winnebago	159.18 out (156.045)
Wood	453.550 rptr

Langlade	151.025 out (1549.00)	Mainette	156.075,159.105,159.18?
Manitowac	159.165 out (156.195)		

MICHIGAN A very detailed contribution was received from Larry (MI-001). Smaller contributions were received from Craig (MI-063), Donny (MI-063), and Charles (MI-076).

State of Michigan: Mobiles are found on 45.68 and 45.84. Mobiles plus "controls" are found on 47.14, 47.22, 47.26, 47.32. The 47MHZ frequencies are repeated out on 151.04, 151.055, 151.107, 151.085, and 151.115. Mackinac Bridge Authority: 453.950 rptr. International Bridge Authority: 156.18.

County Road Commissions (no frequencies were found for Burien, Gogebic, and Otsego Counties):

Alcona	151.01 out (156.06)	Lake	159.06
Alger	45.80	Lapeer	156.135 out (159.015
Allegan	151.04 out (159.015)	Lelanau	37.98
Alpena	159.12 out (156.06 or 146.105)	Leenawee	453.650 rptr
Antrim	159.18 out (156.12)	Livingston	156.24 out (159.06)
Arenac	151.04 out (159.075)	Luce	151.055 out (159.06)
Baraga	151.055 out (159.075)	Mackinac	33.10
Barry	156 .18 out (159.075)	Macomb	159.18 out (156.045)
Bay	150.995 out (156.045)	Monistee	159.18 out (151.01)
Benzie	156.24 out (159.015)	Marquette	151.025 out (156.06)
Branch	156.18 base/159.075mobile	Mason	156.12 out (159.000)
Calhoun	156.24 out (159.06)	Mecasta	156.24 out (151.10)
Cass	151.055 out (156.12)	Memominee	? out (151.10)
Charlevoix	? qut (156.045)	Midland	161.79
Cheboyagan	151.04 out (159.195)	Missaukee	156.225/159.045M
Chippewa	33.06	Monioc	378.98
Clare	151.025 out (159.000)	Montcalm	150.995
Clinton	159.18 out (156.045)	Montmorency	156.24 out (158.985)
Crawford	156.135 out (159.015)	Muskegon	151.025 out (159.06)
Delta	33.02	Newaygo	156.045
Dickinson	159.135 out (156.045)	Oakland	151.055B/156.06M
Eaton	453.700 rptr	Oceana	151.04 out (159.075)
Emmet	150.995 out (159.000)	Ogewaw	159.18 out (156.075)
Genessee	156.18 out (151.10)	Ontonagon	151.04 out (156.225)
Gladwin	159.87	Osceola	159.165 out (156.075)
Grand Traverse	151.025 out (159.06)	Oscoda	37.90
Gratiot	156.105 out (159.075)	Ottawa	159.18 out (156.12)
Hillsdale	453.900 rptr	PresqueIsle	151.025B/159.06M
Houghton	156.135 out (159.195)	Roscommon	156.165 out (150.995)
Huron	156.18 out (159.06)	Saginaw	151.025 out (156.12)
Ingham	151.025?	Samilac	37.98
Ionia	159.105 out o(156.075)	Schoolcraft	156.135 out (159.195)
Iosco	156.24 out (159.105)	Shiawasee	159.12 out (156.06)
Iron	37.98	St.Clair	156.105 out (159.075)
Isabella	156.18 base/159.06mobile	S.Joseph	159.18 out (151.01)
Jackson	151.055 out (156.06)	Tuscola	151.055 out (159.00)
Kalamazoo	159.12 out (156.06)	VanBuren	159.135 out (156.045)
Kalkaska	156.105 out (151.01)	Washtenaw	37.94
Kent	156.135 out (151.01)	Wayne	37.90/151.01/453.950 rptr
Keeweenaw	159.18 out (151.01)	Wexford	159.12 out (156.06)

Rich (IL-173) sent in a very detailed contribution about the ILLINOIS TOLLWAY. I'm printing it in its entirety.

STATE OF ILLINOIS----DISTRICT 15 TOLL ROAD POLICE

DISTRICT NAME	OAKBROOK
FCC CALL SIGN	KD6109, KD6110, KRM 754

Illinois State Police District 15 is responsible only for patrolling an enforcing all laws on the Illinois Tollway system. The tollway system is comprised of three different roads, The Tri-State running north and south between Wisconsin and Indiana; The East-West running east and west between Dixon, Illinois and Elmhurst; The Northwest running east and west between Wisconsin and O'Hare airport in Chicago. The Tri-State (I-294) is divided into 2 halves, north and south, at milepost 30. The East-West (Illinois Route 5) is one complete road as is the Northwest Tollway (I-90).

These areas then make up the four patrol zones, The East-West is Zone 1; Tri-State South is Zone 2; Tri-State north is Zone 3 and the Northwest Tollway is Zone 4.

There are five (5) main police or patrol dispatch frequencies, each in the 453.000 MHz range. All utilize repeaters enabling the listener to hear both sides of the conversation. The signals are beamed up and down the tollway system by way of microwave towers. This confines the signals to the area of the tollway. There are twelve (12) transmitter sites in the system. Each site transmits one of the five dispatch channels. The transmitters are located approximately fifteen to twenty miles apart. The listener has to determine which transmitter site is the closest and then monitor that frequency. All traffic is simulcasted so the listener will not miss out on anything, (SEE---SPLIT/PARALLEL SYSTEMS)

There are four (4) main maintenance frequencies again in the 453.000 MHz range. A similar system to the one described above is used.

SPLIT/PARALLEL SYSTEMS

Normally, the tollway is dispatched in a SPLIT mode. This means that zones 1 and 2 form the south area and zones 3 and 4 form the north area. One dispatcher is assigned to each area. When traffic is lighter all zones are brought together in what is called a PARALLEL system. One dispatcher would normally handle all four zones in this mode. When SPLIT, each area is assigned two patrol frequencies (the fifth being an emergency base station). The listener can hear all traffic on either one of the two area frequencies since all traffic is simulcasted. You cannot, however, hear traffic from the other area unless one of their two frequencies is monitored. Of course when PARALLEL any one of the four channels can be monitored.

MAINTENANCE STATIONS

There are eight Maintenance Stations. They are numbered M-1 through M-8. Each has gas pumps, office space, regular maintenance equipment, etc. (SEE CHART)

SERVICE PLAZAS (OASIS)

There are numerous SERVICE PLAZAS, referred to as Oasis's throughout the system. These are for the use of the patrons of the toll road system. Each restaurant is referred to by name, the Lincoln Oasis, the Hinsdale Oasis, etc. The service station portion of each service plaza is referred to by number and letter, station 2East, station 3West, etc. The number refers to the the service faciltiy and the letter or direction designator indicates which side of the tollraod it is located on. Thus there would be a station 2North and 2South. Each is radio equipped. Dispatching is done on maintenance frequencies.

TOLL PLAZAS

There are numerous toll plazas scattered throughout the system. Some are manned 24 hours a day while others are totally automatic. Those that are manned are equipped with radio equipment on the patrol channels. The toll plazas ID themselves using their plaza number only. No FCC call sign is ever used. Most traffic is directed at the base in Oakbrook although occasional plaza to car traffic is heard. (SEE CHART)

PATROL

Each patrol car is equipped with multi channel UHF radio that, at last report, had to be manually stepped to the correct channel. This means that each time a patrol officer passes a transmitter site, the radio must be adjusted to receive the correct frequency. There were reports that a automatic scanning head was being developed but I have no confirmation of this at this time.
Some patrol cars can also transmit on maintenance frequencies. This is normally limited to supervisory vehicles.

The patrol cars are also equipped with Ispern, HF4 (Channel 7), and a VHF-Hi car to car frequency. There are virtually no low band radios still in use in District 15 mobiles.

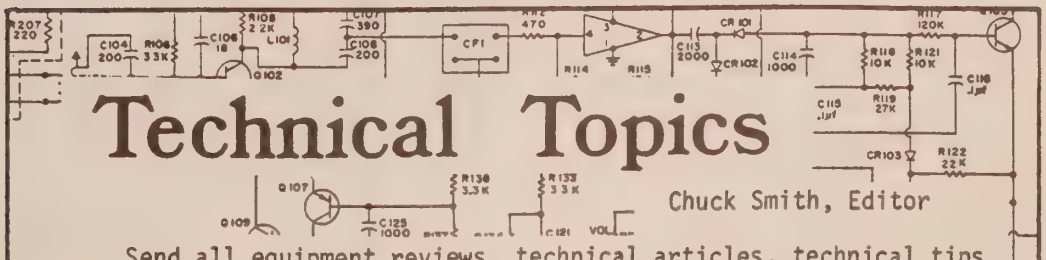
MAINTENANCE

Since maintenance vehicles (both state and service plaza vehicles) normally operate in just one sector or area, they are usually equipped with just the frequency. Quite a number of state trucks, however, are equipped with all of the maintenance frequencies. To my knowledge, no maintenance vehicle is equipped with any of the patrol channels.

CONTROL POINT

The controo point is identified as OAKBROOK. The dispatcher keys up the repeater in the same manner as a mobile or portable, hence the control point type FCC call sign of KD6109 for patrol and KD6110 for maintenance is used. The control point also uses KRM 754 when transmitting on Ispern, HF4, State Car-Car (42.50), etc.

continued



Technical Topics

Chuck Smith, Editor

Send all equipment reviews, technical articles, technical tips and questions on such subjects as receivers, antennas, preamps, accessory equipment, repeaters, links, tones, scramblers, non-voice data transmissions or even computer applications for monitoring to: Chuck Smith, 4901 Heil Ave., #3C, Huntington Beach, CA 92649.

NO COLUMN THIS MONTH

ILLINOIS TE POLICE----DISTRICT 15 FREQUENCY CHART

ZONE	AREA	PATROL	MAINT	M-STATIONS	TOLL PLAZAS
1	E-W TOLLWAY	F3, F4, F5	F1, F3, F4	M8	51,53,55,57,59,61,63,65,67,69
2	TRI STATE SOUTH MILEPOST 0-30	F3, F4, F5	F1, F2, F4	M1, M2	35,37,39,41,43,45,47A,47B,47C
3	TRI STATE NORTH MILEPOST 30-END	F1, F2, F5	F1, F2	M3, M4	21,23,25,27,29,31,32,33
4	NORTHWEST TOLLWAY	F1, F2, F5	F1, F2	M5, M6, M7	1,3,5,7,9,11,13,15,17,19

PATROL FREQUENCIES

F1	453.150
F2	453.200
F3	453.600
F4	453.400
F5	453.350 (EMERGENCY BASE) (all sites)

MAINTENANCE FREQUENCIES

F1	453.250
F2	453.300
F3	453.800
F4	453.625

MISCELLANEOUS FREQUENCIES

ISPERN	155.475 (B/M)
HF4 (CHANNEL 7)	155.460 (B/M)
STATE CAR-CAR	42.500 (BASE)
CAR-CAR	155.925 (MOBILE)

TRANSMITTER SITES

SITE	ZONE	PATROL	MAINTENANCE
Belvidere	4	F1	F1
DeKalb	1	F4	F1
Deerfield	3	F1	F1
Dixon	1	F4	F4
Elgin	4	F2	F2
Elmhurst	2,3	F4	F2
Harvey	2	F3	F1
Lincoln Oasis	2	F4	F4
Naperville	1	F3	F3
Oakbrook	1	F4	F1
Rochelle	1	F3	F3
Waukegan	2	F2	F2

Rich, thanks are in order for that contribution. We had better enjoy that listening while we can, as Bill (IL-020) advises of drastic changes in the ILLINOIS TOLLWAY radio system. Within a period of 2 years, the UHF system will be dropped and will be replaced by a "trunked 800MHZ" system. 453.350 has already supposedly been reallocated to the State of IL for "other purposes".

Chuck (IL-141) advises of a correction to my Sept. info about the Illinois Dept. of Law Enforcement. "N"-Nora units actually are "Professional Standards Investigators". The 154.950 freq. is also installed in these units.

Martin (IL-129) has discovered two more weight scale identifying numbers that appear in the Oct. info about the Illinois Dept. of Law Enforcement. Scale 15E is located at Brownstown and Scale 15W is located at Vandalia. He also has detailed patrol maps covering I.S.P. Dists. 1 thru 8, 10, 15 (several sheets) and 16 thru 18 available for members use. Enclose an SASE (postage as needed) and 20¢ per sheet for copying. Martin Bourgeois, RR3, Box 360, Kankakee, Ill. 60901

This lengthy column draws to a close. Again, happy holidays to all and

Happy Monitoring!!

PUBLIC SAFETY - WEST

Send Public Safety and Special Emergency frequencies, radio system details, and questions for Alaska, Arizona, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, and Wyoming to: George Hoggatt, 17473 E. 16th Drive, Aurora, CO 80011.

Merry Christmas and a Happy New Year to all. I feel a little funny writing that in September, but this is for the issue that will carry a December cover date.

IDAHO STATE POLICE [Dick Marcus WA-019]

This information would appear to be an update from what Mike Lussier sent in for the May 1981 issue (p. 59). Police Call shows the same as Mike's data. Would someone please confirm which is correct?

460.100	repeater	ch.1	statewide
460.200	repeater	ch. 2	statewide
460.025	repeater	ch. 3	statewide emergency
460.300	repeater	ch. 4	area dispatch
460.275	simplex	ch. 5	car to car [Mike shows 465.275 ed.]
460.600	somplex	ch. 6	statewide tactical [again Mike shows 465.400 ed.]

WASHINGTON STATE PATROL [Dick Marcus WA-019]

155,370	All areas inter-office
155.475	all areas [Nationwide police mutual aid frequency]
154,770	car to car
155.580	Seattle
155.520	Tacoma
154,845	Evrett
154.680	Administration
158.790	Inter-office statewide
155.850	Chehalis
155.505	Snoqualmie Pass Interstate 90

SEATTLE WASHINGTON POLICE [Dick Marcus WA-019]

460.375	F-1	data access|non-voice
460.425	F-2	paging|warrents
460.475	F-3	patrol south
460.075	F-3	patrol north
460.125	F-5	patrol east central
460.175	F-6	patrol west central
460.250	F-7	car to car "TAC-7"

SEATTLE WASHINGTON FIRE [Dick Marcus WA-019]

453.800	F-1, F-4	Aid car dispatch
453.600	F-2, F-5	Fire dispatch
453,700	F-3, F-6	Medic one dispatch

Channels 1, 2, 3 are repeater, channels 4, 5, 6 are simplex (cars on the base frequency, no repeater)

PHOENIX ARIZONA POLICE RADIO CODES [Don Haney NY-077]

TEN SERIES

10 –
1 Signal Weak
2 Signal Good
3 Stop transmitting
4 Affirmative (OK)
5 Relay (to)
6 Busy
7 Going off duty/out of service
8 In service
9 Say again
10 Negative *
11 ____ on duty *
12 Stand by (stop) *
13 Existing conditions (road or weather)
14 Message information *
15 Message delivered *
16 Reply to message *
17 Enroute *
18 Urgent/complete present assignment as soon as possible
19 (In) contact *
20 Location
21 Call by phone
22 Disregard/take no further action
23 Arrived at scene *
24 Assignment completed *
25 Report to (meet) *
26 Estimated arrival time *
27 Driver's License/permit information *
28 Ownership information/check full registration
29 Records check/warrant information
30 Danger/caution *
31 Pick up papers *
32 Units needed (specify) *
33 Help me quick *
34 Correct time
35 ____ Reserved ____ *
36 ____ Reserved ____ *
37 ____ Reserved ____ *
38 ____ Reserved ____ *
39 ____ Reserved ____ *
40 Out of service-subject to call *
41 Convoy or escort-mail, parade, etc. *
42 Prisoner in custody or booking *
43 No traffic your unit
44 Does not conform with rules and regulations *
45 Emergency traffic at station *
46 Checking for traffic
47 Prepare to copy *
48 Officer at home *
49 Confidential Information *
50 Switch/ing to____ frequency *
No. 1 Chase
2 Information
3 Detective
4 400 District
5 Talk
6 600 District
7 700 District
8 800 District
9 Service (future frequency)
10 Special (hostage, negotiation, etc.)
11 450-1
12 450-2
13 450-3
14 450-4
15 450-5
51 Felony warrant outstanding
52 Misdemeanor warrant outstanding
53 Attempt to locate–do not molest
54 Have car stopped–may be dangerous
56 Special information desired on your subject
57 You have possible dangerous subject, back-up enroute
60 Female Officer needed to search female suspect
66 Clear for cancellation
68 Court attendance (court date or subpoena)
69 Court detail (Bailiff)
70 P.R. Contact (lunch, dinner, talk)
71 Police range
73 Equipment transfer
74 Minor repair vehicle (m.m. or radio)
75 Morgue detail
76 Notify owner of vehicle recovery, unable to contact by phone
77 Notify parents of juvenile detention
78 Detention detail
79 Death messages or emergency messages
81 Clinic detail
84 Stop signs down
85 Wires down (power, phone)
86 Irrigation water on street
87 Broken water mains
88 Damaged sidewalk
89 Holes in street
90 Traffic signals out of order
91 Assist stranded motorist
92 Wagon Wanted •

[ed comments:
People ask me how I get some of my information. The way Don got these codes is a good way, one that works. Don says he was vacationing in Phoenix and while his wife was shopping, he saw a Phoenix Police car. He asked the policeman "If a list existed" and the policeman reply was " Here – take this and have fun".

It never hurts to ask. The worst thing they can say is "no, get out of here"]

NUMERICAL ORDER

1 Acknowledge Message
2 Urgent — No Red Light or Siren
3 Emergency — Use Red Light & Siren
4 No Further Assistance Needed
5 Stake Out-Other Units Stay Away
6 Out for Investigation (Citation, 10-29 Investigation, or etc.)
7 Out of Service to Eat
101 Woman in the Car
102 Woman out of the Car
103 Subject to Call at Ext._____
105 Going for Gas
106 Car Wash
210 Strong Armed Robbery
211 Armed Robbery
211A Armed Robbery Alarm
211E Extortion
236 Threat
237G Glue Sniffing
237L Marijuana (large amt.) •
237M Report of Marijuana
237K Marijuana (small amt) •
237D Dangerous Drugs
237N Narcotics
239 Fight
240 Assault
245 Assault with a Deadly Weapon
246 Unconfirmed report of a sniper
246C Confirmed report of a sniper
261 Rape
261B Bigamy, Adultery, etc.
300 Gambling
310 Molesting
311 Indecent Exposure
312 Child Neglect (C.D.M.)
315 Forgery
316 Bogus Check
317 Soliciting
318 Defrauding Innkeeper
319 Loss Report
390 Drunk (Disturbing, Down, In Car)
390A LARC
390D Drunk Driver
390L Liquor Violation
415A Phone Calls
415B Criminal Damage •
415E Loud Music or Noise Disturbing
415F Family Row Disturbing
415H Animals Disturbing, Barking Dog
415I Incorrigible Juvenile
415J Juveniles Disturbing
417 Subject Threatening
417G Subject with a Gun
417K Subject with a Knife
418 Civil Matter-Stand By
418A Landlord — Tenant Dispute
418B Neighbor Dispute
418G Unwanted Guests
418T Trespassing
451 Homicide
459 Burglary
459A Burglar Alarm (Audible/Silent)
459F Burglary From Vehicle
487 Theft
487A Theft from Person-Purse Snatch
487B Shoplifting
487F Theft from Vehicle
487I Stolen Bicycle
487L Locate Only, Vehicle
487P Police Car Stolen
487V Stolen Vehicle
488I Recovered Bicycle
488L Recovery of Locate Only, Vehicle
488V Recovery of Vehicle
491 Kidnapping
508 Traffic Control (Special Detail)
509 Traffic Congestion
510 Speeding or Racing
585 Traffic Hazard
586 Illegal Parking
601 Missing Person
601J Missing Juvenile
601F Found Missing Person
647 Suspicious Person, Check Activity
647V Suspicious Person in Vehicle, Check Activity
651 Loose Animals
651A Injured Animals
707 Bomb Scare
711 Intensive Patrol (Preventative)
900 Check Welfare
901 Injured or Sick Person
901C Cutting
901G Shooting
901H Dead Body
901K Ambulance (Enroute, At Scene, or Needed)
901o Overdose Victim
902 Enroute to Hospital
904 Fire Follow-up
905 Arson
905B Fire Bomb
906 Officer Needs Assistance, Potentially Hazardous Situation
907 Back-Up (Make the_____ or Request for)
917 Abandoned Vehicle
918 Insane Person
921 Prowler
921P Peeping Tom
926 Wrecker from List
927 Investigate Unknown Trouble
928 Found Property
928E Found Explosives
928I Found Bicycle
928N Found Narcotics
960 Police aircraft down, no injury or property damage
960A Police aircraft down, with injury and/or property damage
961 Accident-No injuries
961H Hit & Run-No injuries
962 Accident-Injuries
962H Hit & Run-Injuries
963 Accident-Fatality
963H Hit & Run-Fatality
965 Chemist Needed (or BA Operator Needed)
966 ID Officer Needed
998 Officer Involved in Shooting
999 Officer Needs Help Urgently

NOTE: S: Utilize the symbol "S" when a supplemental report is completed.
X: Utilize the symbol "X" when an attempted report is completed.

CITY OF PHOENIX
POLICE DEPARTMENT
RADIO CODES

ALPHABETICAL ORDER

Abandoned Vehicle — 917
Accident, Fatality — 963
Accident, Hit and Run, Fatality — 963H
Accident, Injuries — 962
Accident, Hit and Run, Injuries — 962H
Accident, No Injuries — 961
Accident, Hit and Run, No Injuries — 961H
Acknowledge Message — Code 1
Affirmative (OK) — 10-4
Ambulance (Enroute, at scene, or needed) — 901K
Animals Disturbing, Barking Dog — 415H
Animals Injured — 651A
Animals Loose — 651
Armed Robbery — 211
Armed Robbery Alarm — 211A
Arrived at Scene — 10-23
Arson — 905
Assault — 240
Assault With a Deadly Weapon — 245
Assignment Completed — 10-24
Assist Stranded Motorist — 10-91
Attempt to Locate, Do Not Molest — 10-53
Back-up (Make the____, or Request For) — 907
Bigamy, Adultry, etc. — 261B
Bogus Check — 316
Bomb Scare — 707
Broken Water Mains — 10-87
Burglar Alarm (Audible/Silent) — 459A
Burglary — 459
Burglary from Vehicle — 459F
Busy — 10-6
Call by Phone — 10-21
Car Wash — 106
Check Welfare — 900
Checking for Traffic — 10-46
Chemist Needed (or BA Operator Needed)— 965
Child Neglect — 312
Civil Matter-Stand By — 418
Clear for Cancellation — 10-66
Clinic Detail — 10-81
Confidential Information — 10-49
Convoy or Escort (Mail, Parade, etc.) — 10-41
Correct Time — 10-34
Court Attendance (Court Date or Subpoena) — 10-68
Court Detail (Bailiff) — 10-69
Criminal Damage — 415B •
Cutting — 901C
Damaged Sidewalks — 10-88
Danger, Caution — 10-30
Dangerous Drugs — 237D
Dead Body — 901H
Death Messages or Emergency Messages — 10-79
Defrauding Innkeeper — 318
Detention Detail — 10-78
Disregard, Take no Further Action — 10-22
Does Not Conform with Rules and Regulations — 10-44
Drivers License/Permit Information — 10-27
Drunk (Disturbing, Down, etc.) — 390
Drunk Driver — 390D
Emergency Traffic at Station — 10-45
Emergency, Use Red Light and Siren — Code 3
Enroute — 10-17
Enroute to Hospital — 902
Equipment Transfer — 10-73
Estimated Arrival Time — 10-26
Existing Conditions (Road, Weather) — 10-13
Extortion — 211E
Family Row Disturbing — 415F
Felony Warrant Outstanding — 10-51
Female Officer needed to search female suspect — 10-60
Fight — 239
Fire Bomb — 905B
Fire Follow-up — 904
Forgery — 315
Found Missing Person — 601F
Found Bicycle — 928I
Found Explosives — 928E
Found Narcotics — 928N
Found Property — 928
Gambling — 300
Glue Sniffing — 237G
Going for Gas — 105
Going Off-Duty/Out of Service — 10-7
Have Car Stopped, May Be Dangerous — 10-54
Help Me Quick — 10-33
Holes in Street — 10-89
Homicide — 451
I.D. Officer Needed — 966
Illegal Parking — 586
(In) Contact — 10-19
In Service — 10-8
Incorrigible Juvenile — 415I
Indecent Exposure — 311
Injured or Sick Person — 901
Insane Person — 918
Intensive Patrol (Preventive) — 711
Investigate Unknown Trouble — 927
Irrigation Water on Street — 10-86
Juveniles Disturbing — 415J
Kidnapping — 491
Landlord/Tenant Dispute — 418A
LARC — 390A
Liquor Violation — 390L
Locate Only, Vehicle — 487L
Location — 10-20
Loss Report — 319
Loud Music/Noise Disturbing — 415E
Marijuana, Large Amt.—237L •
Marijuana, Report of — 237M
Marijuana, Small Amt.—237K •
Message Delivered — 10-15
Message Information — 10-14
Minor Repair, Vehicle (M.M. or Radio) — 10-74
Misdemeanor Warrant Outstanding — 10-52
Missing Juvenile — 601J
Missing Person — 601
Molesting — 310
Morgue Detail — 10-75
Narcotics — 237N
Negative — 10-10
Neighbor Dispute — 418B
No Further Assistance Needed — Code 4
No Traffic Your Unit — 10-43
Notify Owner of Vehicle Recovery, Unable to Contact by Phone — 10-76
Notify Parents of Juvenile Detention — 10-77
Officer at Home — 10-48
Officer Involved in Shooting — 998
Officer Needs Assistance, Potentially Hazardous Situation — 906
Officer Needs Help Urgently — 999
____On Duty — 10-11
Out for Investigation, Citation, etc. — Code 6
Out of Service to Eat — Code 7
Out of Service, subject to call — 10-40
Overdose Victim — 901o
Ownership Information/ Check Full Registration — 10-28
Peeping Tom — 921P
Phone Calls — 415A
Pick Up Papers — 10-31
Police Aircraft Down, No Injuries or Property Damage — 960
Police Aircraft Down, with Injuries and/or Property Damage — 960A
Police Car Stolen — 487P
Police Range — 10-7f
Prepare to Copy — 10-47
Prisoner in Custody or Booking — 10-42
Prowler — 921

P.R. Contact (Lunch, Dinner, Talk) — 10-70
Rape — 261
Records Check/Warrant Information — 10-29
Recovered Bicycle — 488I
Recovery of Vehicle — 488V
Relay (To) — 10-5
Reply to Message — 10-16
Report to (Meet) — 10-25
Say Again — 10-9
Shooting — 901G
Shoplifting — 487B
Signal Good — 10-2
Signal Weak — 10-1
Sniper, Unconfirmed Report — 246
Sniper, Confirmed Report — 246C
Soliciting — 317
Special Information Desired on
Your Subject — 10-56
Speeding/Racing — 510
Stakeout, Other Units Stay Away — Code 5
Stand By — 10-12
Stolen Bicycle — 487I
Stolen Vehicle — 487V
Stop Sign Down — 10-84
Stop Transmitting — 10-3
Strong Armed Robbery — 210
Subject to Call at____ — Code 103
Subject Threatening — 417
Subject with Gun — 417G
Subject with Knife — 417K
Suspicious Person, Check Activity — 647
Suspicious Person in Vehicle,
Check Activity — 647V
Switch/ing to____ Frequency — 10-50
No. 1 Chase
2 Information
3 Detective
4 400 District
5 Talk
6 600 District
7 700 District
8 800 District
9 Service (Future Frequency)
10 Special (Hostage Negotiation, etc.)
11 450-1
12 450-2
13 450-3
14 450-4
15 450-5
Theft — 487
Theft from Person, Purse Snatch — 487A
Theft from Vehicle — 487F
Threat — 236
Traffic Congestion — 509
Traffic Control (Special Detail) — 508
Traffic Hazard — 585
Traffic Signals Out of Order — 10-90
Trespassing — 418T
Units Needed (Specify) — 10-32
Unwanted Guests — 418G
Urgent, Complete Present Assignment
as Soon as Possible — 10-18
Urgent, No Red Lights or Siren — Code 2
Wagon Wanted — 10-92
Wires Down (Power, Phone) — 10-85
Woman in Car — 101 (Out, 102)
Wrecker from List — 926
You Have Possible Dangerous Subject,
Back-Up Enroute — 10-57

NOTE: S: Utilize the symbol "S" when a supplemental report is completed.
X: Utilize the symbol "X" when an attempted report is completed.

80-59D
Rev. 11-78

Well that's all for this month and this year. Kind of short. I haven't ranted and raved about the lack of contributions for a while and they have dropped of to almost nothing. Just two this time plus one that has to go to another column.

By the time you read this, I will be in England or Scotland. I'm going there for a four week vacation. I hape I can get some information to report on monitoring there.

I hope I have enough data to make two columns (january and February) as I have to send in both just before I leave.

PUBLIC SAFETY - CALIFORNIA

Send Public Safety and Special Emergency frequencies, radio system details, and questions for California to: Eric Christensen (CA-LA-045), 3146 W. Ball Road, Apt. 35, Anaheim, CA 92804.

WELCOME TO THE DECEMBER 1981 ISSUE OF R.C.M.A. PUBLIC SAFETY-CALIF

Merry Christmas and Happy New Year from the editorial staff at Public Safety-California, ERIC (CA-LA-045) and MIKE (ID-001). This month we add a new assistant editor to the staff. Here is an introduction from Mike.

It's a pleasure to be part of this newsletter with Eric. I've been a scanner enthusist for ten years and have been an RCMA member since Febuary 1977. I use a Bearcat 250 and a Regency M-400 for monitoring. I'm looking forward to helping with this column.

From Mike (CA-OR-204)

PARAMEDIC RADIO SYSTEM - ORANGE COUNTY, CALIFORNIA

Orange County has a county-wide system similar to those used in many metropolitan areas of the country. Paramedic-hospital coordination in Orange Co. is done by Orange County Communications ("O.C.C."). Medic units are dispatched on their fire department primary frequency and contact the paramedic communication coordinator while enroute to an assignment. The medic units give their unit I.D., the type of medical emergency to which they are responding, and the "district" (map coordinates) to which they are enroute. The coordinator will then assign one of six Orange County hospital bases and a MED channel on which to contact that base. Each new call is assigned a new base and MED channel.

The Orange County MED channels are the same UHF MED channels used nationwide. The hospital-base frequencies are between 463.000MHz and 463.175MHz. There are eight frequencies, spaced .025 Mhz apart (known as MED 1 - MED 8). Paramedic-mobile frequencies are between 468.000MHz and 468.175MHz and are also spaced .025 MHz apart. Mobile frequencies are paried with the base frequencies and will always be 5 MHz above their base freq. In Orange County, the MED channels are preceeded by the suffix "alpha" or "bravo" (eg: "alpha 1" is alpha, MED channel 1). These suffixes designate tones (not audible on most recievers) which are used to distinguish one transmission from another, allowing dual use of a single frequency. In a sense, there are two channels (alpha and bravo) on one frequency. For those with scanners the suffix makes no difference, for the number given is what determines the MED channel.

The Or. Co. paramedic-hospital coordination channel is 462.950MHz (467.950MHz mobile), designated "MED-10". O.C.C.'s call sign is KIZ620. This channel is on a repeater system which means mobile medic transmissions from the entire county can be heard. Repeaters also aid the hospitol bases and portable medic radios in receiving each other's signal. Scanners can recieve all six county hospital bases fairly well, however, reception of the signal from portable medic radios (called "corps packs") is limited to the immediate area for most scanner listeners.

If a medic unit is in a poor position for communication with the hospital base (especially in the canyon areas and below the cliffs on south O.C. beaches), they may be instructed by O.C.C. to use "high-gain" to boost their signal. If communication is impossible (many times in Ortega Canyon), the medic coordinator may have to relay information between the hospital base and the medic unit on the MED-10 channel. If many incidents are working at one time, two medic units may have to share a single channel with the same hospital base. "Frequency sharing", as it is termed, may also be used when a second paramedic unit is dispatched to one call, as in multiple injury accidents.

Most of Orange County's private ambulance companies now have "MED-10" radios in their units. This allows direct communication between the ambulance (used for transportation of patients), the paramedic unit, and O.C.C.

Orange County Hospital Bases

The hospital bases may use any of the eight MED channels, as assigned by O.C.C.

-Anaheim Memorial Hosp. (Anaheim) "Anaheim" or "A.M.H." (KBA833), (KIQ 687)
-Hoag Memorial Hospital (Newport Beach) "Hoag" (KYL780)
-Huntington Intercommunity Hosp. (Huntington Beach) "H.I.H." (KAW 834)
-Mission Community Hospital (Mission Viejo) "Mission" (KCA892)
-St. Jude Hospital (Fullerton) "St. Jude" (KYO870), (KWM833)
-University Calif. at Irvine Medical Center (Orange) "U.C.I." (KUX377)

Orange County Trauma Centers (Established June, 1980)

Anaheim Memorial Hospital (Anaheim)
Fountain Valley Community Hospital (Fountain Valley)
Mission Community Hospital (Mission Viejo)
U.C. Irvine Medical Center (Orange)
Western Medical Center (Santa Ana)

From Mike (CA-OR-204)

Orange County Paramedic Units

The paramedic units in Orange County were originally numbered according to the fire "network" which they were in. This system is no longer valid, however some units still retain their NET I.D.'s. I.D.'s of other units vary depending upon the department and type of unit.

Orange County Paramedic Units-as of 8/81:

1-4 (OR.CO.F.D.-U.C. Irvine)	"OR.CO. Medic 1-4"
1-6 (OR.CO.F.D.-South Laguna)	"OR.CO. Medic 1-6"
1-7 (OR.CO.F.D.-San Juan Capo.)	"OR.CO. Medic 1-7"
1-17 (OR.CO.F.D.-Tri Cities-Cypress)	"OR.CO. Medic 1-17"
1-21 (OR.CO.F.D.-Redhill-Tustin)	"OR.CO. Medic 1-21"
1-22 (OR.CO.F.D.-Laguna Hills)	"OR.CO. Medic 1-22"
1-23 (OR.CO.F.D.-Villa Park)	"OR.CO. Medic 1-23"
1-24 (OR.CO.F.D.-Mission Viejo)	"OR.CO. Medic 1-24"
1-26 (OR.CO.F.D.-N. Irvine)	"OR.CO. Medic 1-26"
1-34 (OR.CO.F.D.-Placentia)	"OR.CO. Medic 1-34"
"La Habra Medic 1"	(La Habra was 3-1)
"Brea Medic 1"	
"Fullerton Medic 1" (Engine/Medic 1)	(Fullerton was 3-2)
"Fullerton Medic 2" (Engine/Medic 2)	
"Fullerton Medic 5" (Engine/Medic 5)	
3-3 (Buena Park F.D.)	"Buena Park Medic 3-3"
4-1 (Garden Grove F.D.)	"Grove Medic 4-1"
4-2 (Garden Grove F.D.)	"Grove Medic 4-2"
"Anaheim Medic 1" (Engine/Medic 1)	(4-3, 4-4, and 4-5 were Anaheim units.)
"Anaheim Medic 2" (Engine/Medic 2)	
"Anaheim Medic 3" (Engine/Medic 3)	
"Anaheim Medic 4" (Engine/Medic 4)	
"Anaheim Medic 8" (Engine/Medic 8)	
5-1 (Orange F.D.)	"Orange Medic 5-1"
"Santa Ana Medic 1"	(Santa Ana was 5-2)
"Santa Ana Medic 2"	
"Santa Ana Medic 5" (Squad/Medic 5)	
"Santa Ana Medic 6"	
"Santa Ana Medic 8" (Squad/Medic 8)	(S.A.M. 8 replaces S.A.M. 3)
6-1 (Huntington Beach F.D.)	"Huntington Beach Medic 6-1"
6-2 (Foutain Valley F.D. Rescue)	"Foutain Valley Medic 6-2"
6-3 (HUntington Beach F.D.)	"Huntington Beach Medic 6-3"
6-4 (Westminster F.D.)	"Westminster Medic 6-4"
6-5 (Seal Beach F.D.)	"Seal Beach Medic 6-5"
7-1 (San Clemente F.D.)	"San Clemente Medic 7-1"
"Mesa Medic 1" (Costa Mesa F.D.)	(8-1 was Costa Mesa)
"Mesa Medic 2" (Costa Mesa F.D.)	
"Newport Medic 2" (Newport Beach F.D.)	(8-2 and 8-3 were Newport Beach units.)
"Newport Medic 3" (Newport Beach F.D.)	

The mobile call sign for all O.C. medic units is: KK7669.

From Mike (CA-OR-204)

Orange County F.D.

The Orange County Fire Department has two transmitters, one located on Lomas Ridge (for the north county area) and the other located near Laguna Beach (for the south county area). Over the past several months, transmissions for the south county have tended to be soley on theLaguna transmitter, and transmissions for the north county have tended to be soley on the Lomas transmitter, rather than all Transmissions being simultaneously broadcast on both transmitters. If you live in the northern part of Orange County , your radio will probably need an outside antenna to recieve more than a weak signal from the Laguna transmitter. The same is true to recieve the Lomas transmitter in south Orange County.

Newport Beach F.D.

Station call signs:

Sta. 1 KMH342
Sta. 2 KTE493
Sta. 3 KMB434
Sta. 4 KMH344
Sta. 5 KMH343

Santa Ana F.D.

The city of Santa Ana has cut four fire department positions and increased it's paramedic service fee (was $100 per run). The fire department has discontinued the "paramedic equipped engine companies" and has returned to using two-man medic units. (S.A.F.D. had been operating Medics 1,2,and 6 as medic-engines, and Medics 3 and 5 were two man medic vans). Medics 1,2,and 6 are now medic vans. A new squad has been purchased and is now Squad5/Medic5. Paramedics have been moved from station 3 to station 8 and Squad 8 is being used as Squad 8/ Medic 8. Two new medic vans have been purchased, and Truck 6 has been moved to station 4 and is now truck 4.

Orange County Communications ("Control 1")

In addition to the countywide "Red" police emergency channel(460.025 Mhz), crime bulletins are broadcast over the Orange County Marshall's primary channel (506.8625 Mhz), and the Orange County local goverment channel(153.92 Mhz). Bulletins are broadcast simultaneously on all three frequencies. In addition, traffic sigalerts are broadcast by Control 1 on 153.92 (KMK457).

Tustin P.D.

"K" units are the the Tustin P.D. kanine unit(s). (eg: "701-K" or "306-K").

From Mike (CA-OR-204)

Dual use of F.D. primary freq.'s...

Santa Ana F.D. units and Costa Mesa F.D. units have the capability of operating on each others primary frequencies for mutual aid. S.A.F.D. and C.M.F.D. have been in agreement since Orange F.D. moved off of Santa Ana's primary freq. (46.34MHz) to join NET 4.

OR. CO. Engine 27 (John Wayne Airport) is in agreement with Newport Beach F.D. and can operate on the Newport/Costa Mesa primary freq. (46.44MHz) in addition to the county F.D. freq.'s.

Laguna Beach contracts paramedic service from OR.CO. F.D., and OR.CO. medics 1-6 and 1-22 (First and second due) can operate on the NET7 primary freq. (46.160).

Also notable are two NET4 agreements; OR.CO. medic 1-23 serves as Orange City F.D.'s second due medic unit. Stanton has an agreement with OR.CO. F.D. for paramedic mutual aid, and OR.CO. Medic 1-17 is the first due unit. NET 4 has been working mutual aid calls on 46.42MHz (Tac 4).

- - -

Questions:

From Mike (Ca-Or-204)

What frequency(s) is(are) the military police in Orange County now using? Also, does anyone know the F.D. freq.'s for: El Toro U.S.M.C.A.S. F.D.; Tustin M.C.A.S.(H) (crash crews); Los Alamitos N.A.S.; Seal Beach N.W.S. F.D.

I haven't figured out the following P.D. abbreviations:

E.T. -(C.H.P., hospitol followup-?)
G.B. -(P.D., relates to 503 report-?)
H.U.A. -(P.D.,??)
M.S. - (Fountain Valley unit to dispatcher: "I'm 10-19 with an M.S.")
N.C.A.P.S.(or isit M.C.A.P.S.?) - (Some type of computer info. system-?)
W.P.O.D. -(P.D.,??)

- - -

NWT 6 joint powers has a completely new fire unit numbering system. I hope you can publish a complete list of the new numbers in an upcoming newsletter.

Perhaps some of the members can help with these abbreviations.

As for the frequencies, the following may be in use...

El Toro Marine Air Station- Fire Dept. 138.74, 138.94, 140.10.
Tustin facility- 142.86 for MP's and 140.10 for Fire.
Los Alamitos may use 141.0. Seal Beach N.W.S. has been active on 142.50 and 142.675.

Thank you Mike for the input.

Noel (CA-SC-025) relates from his home in San Jose that the following frequencies were used during the Aerial Treatment of Malathion by "Medfly Base" the Dept. of Agriculture, 39.50, light crew on 47.20, 122.70, 126.20, 123.55, and 122.90 for helicopters (six of them).

Larry Valterza (CA-SA-003) sends in a corrected list for Sacramento Police Dept.

Ch-1	460.05R	Central	KMA907	(Call signs from Police Call Vol. 9 by Gene Hughes)
Ch-2	460.20R	South	KMA907	
Ch-3	460.325R	East	KMA907	
Ch-4	460.475R	North	KMA907	
Ch-5	460.425R	Info, Tactical	KMA907	
Ch-6	460.075R	Detectives	-	
Ch-7	460.50M	Tactical	KL5542	
Ch-8	460.275	Emergency	KMA907	

Member Capias (NV-009) relays some radio codes from Contra Costa Co. Most are standard except the following:

10-26	Clear	10-56	Suicide
10-32	Drowning	10-56A	Suicide attempt
10-40	Phone Call?	10-59	Security check
10-43	Call Doctor	10-63	Prepare to copy message
10-45	Condition of patient	10-66	Suspicious person
10-45A	Condition good	10-67	Person calling for help
10-45B	Condition serious	10-70	Prowler
10-45C	Condition critical	10-71	Shooting
10-45D	Deceased	10-73	How do you copy
10-49	Proceed to..	10-80	Explosion
10-51	Drunk	11-94	Pedestrian stop
10-52	Resuscitator	11-95	Traffic stop, routine
10-53	Man down	11-96	Traffic stop, suspicious
10-54	Possible dead body	Code 9	Set up roadblock
10-55	Coroner's Case	Code10	Bomb threat
		Code666	Emergency roadblock

Contra Costa Countywide Number assignment system:

1	Sheriff	9	Pittsburg	23	EBRPD
2	Antioch	12	Pleasant Hill	25	Water Dist.
3	Brentwood	13	Richmond	27	Dist. Atty.
4	Concord	14	San Pablo	28	Probation
5	El Cerrito	15	Walnut Creek	29	FBI
6	Martinez	19	CHP	32	Disaster Off
7	Kensington?	21	Ambulances	37	Comm. Tech.
8	Pinole	22	Marshalls/Constables	41	Red Cross

Doug STAGNER (CA-SD-031) reports that San Diego Fire Dept. has a new "On Scene" fire channel of 154.085. He is now looking for a Tac-4 frequency which is used at two or more alarm fires.

Chuck OCONNOR (CA-SC-017) writes that San Jose CHP has delayed the "Extender" radios due to manufacturing problems. He will update us.

Mike (IDAHO-001) reports that East L.A. CHP won't be changing to Yellow (42.52/42.30) until as late as January 1982.

Gerry FRANKE (CA-SL-005) reports that Santa Cruz CHP is temporarily using the Blue (42.34/42.18) and that radio techs have been adding new equipment and sites in the Santa Cruz and Monterey. As a sidelight to his comments, it is believed that Monterey will be changing to the Black (42.46/42.70) along with King City next year.
Gerry also sent a superb listing of CDF Statewide. Thanks, Gerry.

NEWSFLASHES: From ERIC (CA-LA-4?)
Both Long Beach PD and Costa Mesa PD's are using mobile computers or will be very soon. The frequency for Costa Mesa will be 800mhz.

L.A. COUNTY SHERIFF 470mhz radio system channel assignment is as follows:

Ch. 1 470.6875 Area for channels not verified
Ch. 2 470.9375
Ch. 3 470.7375
Ch. 4 470.8375
Ch. 5 470.8625
Ch. 6 470.8875
Ch. 7 470.9125
Ch. 8 470.7875 (monitored by L.A. dispatch)

From Police Call 1981 Volume 9, by Gene Hughes, can any member identify the following freqs? - 37.36, 39.16, 39.92, 155.73 for Los Angeles Co. Sheriff?

For L.A. CO. Fire Dept. the 470mhz radio system is used in the areas listed: per Police Call So. Cal. Edition Vol. 1981, & other sources.

470.3625	Ch. 1	Countywide
470.4125	Ch. 2	East L.A. and Whittier
470.4375	Ch. 3	Central north and east
470.4625	Ch. 4	La Canada area
470.4875	Ch. 5	Hollywood, Westwood, and Carson
470.5125	Ch. 6	Southwest
470.5375	Ch. 7	Calabasas
470.5625	Ch. 8	Antelope, Newhall, and N. Malibu
470.5875	Ch. 9	S. L.A. and Lakewood
470.6125	Ch. 10	S. Malibu
470.6375	Ch. 11	Antelope Valley
470.6625	Ch. 12	Industry, Hacienda Hts., San Dimas, La Puente

---

David (CA-SF-???) a new member in San Francisco has capability to monitor 37 channels and shares the following:
S.F. Muni. Transit on 30.66, 31.06, and 31.14. S.F.P.D. on 45.10, 45.14, 45.58, 45.46. 45.46 is used for traffic patrol.

155.55, 460.075, 460.35, and 460.45 are used by the tactical div. Most fire activity is on 488.3625, 488.5625, and 488.7625. Bay Area Rapid Transit Police use 453.15. State Police use 453.825 for primary channel. U.S. Park Police use 163.15. S.F. public ambulance uses 155.22.
David also reports that Marin Co. has a centralized dispatch system and that all city fire depts. use 46.12 and 46.50. All P.D.'s use 39.44 and 39.52 except San Rafael 39.16 and Sausalito on 39.64. The Sheriff's dept. uses 39.24 and 39.28.
David cites Police Call for most of his listing and some credit to personal searching. Thank you, David.

From ERIC (CA-LA-045):

Once again here is a list of agencies to listen to at the Rose Parade and Rose Bowl:

FREQUENCY	MODE	CHANNEL	USAGE/PURPOSE
506.4625 Mhz	R	Pasadena PD F1	Normal police operations
506.6875	R	Pasadena PD F2	Rose Parade/Bowl Command
39.48	BM	LA Sheriff "Charlie"	Prisoner vans/units
39.72	BM	LA Sheriff "Edward"	Prisoner vans/units
39.32	BM	LA Sheriff "William"	Prisoner vans/units
470.8625	R	LA Sheriff F5	LASO Foot Patrol
470.9125	R	LA Sheriff F7	LASO Foot Patrol
42.34	BM	Calif. Hwy. Patrol "Blue"	Traffic Control
154.515	BM	Rose Parade Command Channel	
154.92	BM	Clemars	Mutual Aid-Command
155.955	BM	Pasadena Local Government	
158.82	BM	Pasadena Local Government	
458.425	BM	Pasadena Local Government	
147.27	R	Amatuer Radio-parade command channel	
145.30	R	Amatuer Radio-parade command channel	
146.52	M	Amatuer Radio-parade command channel	
46.10	B	Pasadena Fire Dept. Dispatch "VERDUGO"	
153.89	BM	Pasadena Fire Dept. Primary (30 series)	
150.92	BM	Automobile Club of Southern Calif. (AAA-ACSC)	
150.95	BM	ACSC-AAA	
450.75	R	KMPC Radio Station	
450.85	R	KFWB Radio Station	
161.76	BM	KNBC Television	
450.5875	R	KTTV Television	
173.375	BM	Pasadena Star News	
156.03	BM	Pasadena Police Dept.	
39.40	M	LA Sheriff P-1	
39.26	M	LA Sheriff P-2	
463.175	B	Pasadena-Huntington Memorial Hospital	
151.07	R	LA County Road Dept.	
450.80	R	KNX NewsRadio	
151.625	BM	Unknown users-possibly tow trucks or security	
151.655	BM	"	
151.775	BM	"	
151.805	BM	Ranger Security Company, Pasadena	
46.00	BM	Medevac Ambulance Co., Pasadena	
47.42	BM	American Red Cross	
462.675	BM	Pasadena City College Security (GMRS)	
132.00	BM?	Goodyear Blimp (217.475 also)	
122.75	M	Police Helicopters	
123.025	M	Police Helicopters	
156.33	BM	San Marino Police Dept.	
158.73	R	Sierra Madre and Monrovia Police Depts.	
470.9875	R	South Pasadena Police Dept.	
507.0625	R	Arcadia Police Dept.	
159.09	R	Glendale Police Dept.	
42.50	B	California Highway Patrol Glendale (98 units)	

Thanks goes out to the numerous persons who contributed to this list.

See also in this issue UHF 470 Radio System for LA Sheriff. Also try monitoring various CHP channels: Orange 42.88 (Baldwin Park); 42.46 (Central LA) Black. Also monitor CalTrans for roadway conditions on 47.24-freeways, and various news media freqs. in the 161 and 450 mhz area. Hope USC wins!
The Primary Command channel for Rose Bowl/Parade is Pasadena PD Ch. 2 506.6875mhz

VHF Marine

Rod O'Connor, Editor

Send information, articles, frequencies and how they are used, and questions that relate to private, commercial, and Coast Guard VHF maritime and inland waterways radio communications to: Rod O'Connor, USCG Group, 259 High Street, South Portland, Maine 04106.

RADIO NAVIGATIONAL WARNINGS — RADIO NAVIGATIONAL AIDS

UNITED STATES —Atlantic and Gulf Coasts (Cont'd)

4093. Chincoteague, VA. (NMN-70), U. S. Coast Guard.

TIMES:	FREQ.:	NATURE OF BROADCAST
0200, 1145	157.1 MHz, F3	Notice to Mariners only.
0233, 1403	2670 kHz, A3, A3H	Notice to Mariners and weather.

4095. Hampton Roads, VA. (NMN-80), U.S. Coast Guard.

TIMES:	FREQ.:	NATURE OF BROADCAST:
0203, 1333	2670 kHz, A3, A3H	Notice to Mariners and weather.
0230, 1120	157.1 MHz, F3	Notice to Mariners only.

4096. Portsmouth, Va. (NMN), U.S. Coast Guard.

TIMES:	FREQ.:	NATURE OF BROADCAST:
0020, 1520	448 kHz, A1	Notice to Mariners.

4098. Fort Macon, N.C. (NMN-37), U.S. Coast Guard.

TIMES:	FREQ.:	NATURE OF BROADCAST:
0103, 1240	2670 kHz, A3, A3H	Notice to Mariners and weather.
0130, 1030	157 MHz, F3	Notice to Mariners only.

4099. Cape Hatteras N.C. (NMN-13), U.S. Coast Guard.

TIMES:	FREQ.:	NATURE OF BROADCAST:
0133, 1303	2670.kHz, A3, A3H	Notice to Mariners and weather.
0100, 1055	157.1 MHz, F3	Notice to Mariners only.

4100. Charleston, S.C. (NMB), U.S. Coast Guard.

TIMES:	FREQ.:	NATURE OF BROADCAST:
0420, 1620	2670 kHz, A3, A3H	Notice to Mariners and weather.
1200, 2200	157.1 MHz, F3	Notice to Mariners only.

4102. Mayport, Fla. (NMA-10), U.S. Coast Guard.

TIMES:	FREQ.:	NATURE OF BROADCAST:
0620, 1820	2670 kHz, A3J	Notice to Mariners and weather.
1215, 2215	157.1 MHz, F3	

4104. Miami, Fla. (NMA), U.S. Coast Guard.

TIMES:	FREQ.:	NATURE OF BROADCAST:
0050, 1500	440 kHz, A1	Notice to Mariners and weather.

4105. Miami Beach, Fla. (NCF), United States Coast Guard.

TIMES:	FREQ.:	NATURE OF BROADCAST:
0350, 1550	2670 kHz, A3J	Notice to Mariners and weather.
1230, 2230	157.1 MHz, F3	

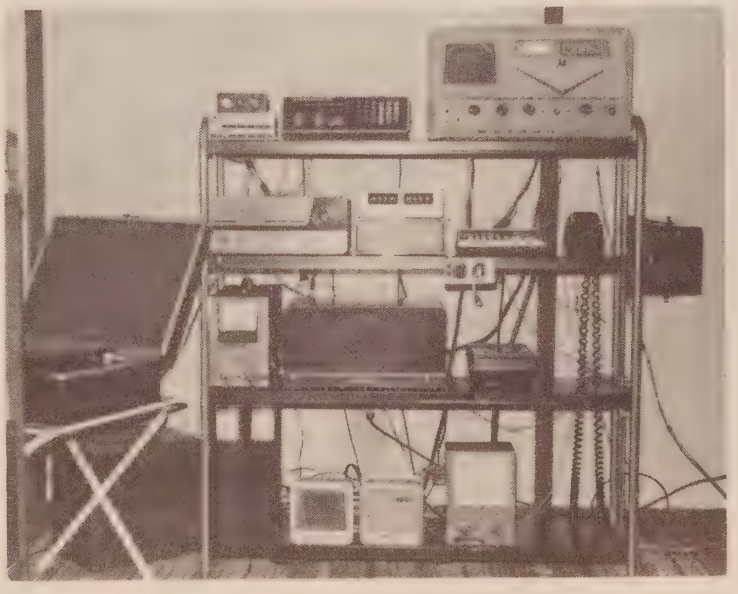
This is the second installment in the Notice to Mariners listings for U.S. Coastal waters. Note, once again that all times are Greenwich Mean Time (Z-time).

No comments at all received from other members this past month.

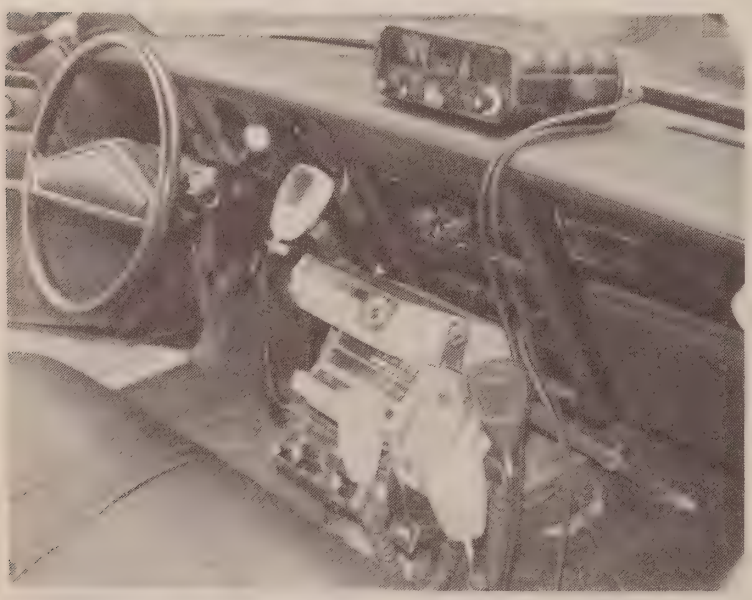
photo department

Send photographs of custom monitor listening posts, unusual or extensive monitor or two-way antenna systems, user station consoles (PD, Fire, Paramedics, etc.) or other monitor/two-way related equipment of interest, Photographs must be 3' by 5' inches or larger, black and white with good contrast, sharply focused and attractively composed. Each photo must be accompanied by details and explanations of equipment. Photos will not be returned. If you have questions, write first and please include an SASE. Send photos or write to: Mike Redman, P.O. Box 1177, St. Charles, MO 63301.

Welcome to December's Photo Column. We have several photos from the collection of WILL (IL-116). On the left we see Will's personal auto with two Motorola Motrac U43MHT Mobiles; one converted to 2 meters, and the other still VHF High Band. On the seat is a Tempo 220 Mhz amateur hand held unit. Will's auto is a 1977 Datsun which has a license plate of "154725", the primary Police channel of Woodridge PD, where Will is employed as Police Officer. The box to the right of the Motrac is an RP Electronics MFA-22 Synthesizer which apparently couples to the 2-meter Motrac set. In the lower photo we see Will's home radio installation, which we'll describe starting on the top shelf: Radio Shack Pro 2002 50-channel monitor, fed by a Hustler DCX Discone antenna, Motorola L43GGB 2-Meter Amateur Transceiver with another RP Electronics MFA-22 Synthesizer, fed by a Cush Craft Ringo Ranger Antenna, a Regency TMH-2 6-channel VHF Monitor Receiver fed by a Finco 1/4 wave Ground Plane antenna, Regency ACT-C4U UHF 4 channel monitor, with antenna self contained, and a Midland 13-509 220 Mhz VHF Amateur Transceiver with a Drake 1525EM Encoding Microphone, fed by a Single J-Pole. Will also has a couple Motorola Speakers there on the bottom shelf. These are pretty neat things to come by. They cost an arm and a leg brand new, but if you can run across one in a used equipment shop or hamfest, they make nice monitor speakers. They are generally designed to do an excellent job at voice frequencies, and as such they make an ordinary monitor receiver sound great. The Motorola Motrac units (if you can find them used) make dandy monitor receivers, if you don't mind the small channel capability and the trunk mount radio unit.



Since Will is employed by the Woodridge Police Dept. he was kind enough to send along a photo of the base station console and the interior of his Police Squad unit. The console is a Kustom/GE unit with dual operator capability. The LEADS computer system terminal and keyboard is shown and they also have teletype capability for communicating with the impaired of hearing. In the center of the console above the card slots it looks like they have one of the Dictaphone Call-Check recorders. These are endless loop type tape recorders that are used for instantaneous playback in case the radio dispatcher didn't catch all of that last broadcast from the field. In the marked Police Unit, a 1979 Chrysler Newport, we see a Motorola 40 channel Citizens Band Radio, Decatur MV-715 Moving Radar unit (atop dash), Motorola 4 channel 45 watt VHF radio with scan ability (center), Federal PA-2100 100 watt Siren/PA system (bottom). Mounted sideways is a GE "Mastr-Pro" ISPERN Radio, 4 channel, 110 watts. Wonder how Will knows which of the 4 microphones to pick up when he is called? We thank Will immensely for sharing with us these photos of his personal auto and base installation, and his department's radio console and mobile unit. Why not send in your photos? They, too could end up here for the membership to see. Send them in to the all to familiar PO Box today! Now we need to discuss the letter from Mr. Broadbent that appeared in September. I haven't been ignoring all the mail that letter generated, but the letter appeared in September and it's October 1 as I write this, and it will appear in December, so here we go. I received a great deal of mail concerning the letter of Mr. Broadbent including a letter from Mr. Broadbent himself indicating that the letter may have been written in haste and may not have been as carefully thought out as he would have liked, and he never expected me to put it into the Newsletter. But if a change is needed we need to discuss it and I'm thankful for all the cards and letters I've received on the subject.



Iden Rogers, former Newsletter Editor writes: "A little historical backround of the column might be pertinent. At the time the column was started I [Iden] was the RCMA Newsletter Editor. I asked Mike to print photos of interest to the membership that related to monitoring such as monitoring set-ups that are unusual, extensive, or a little different than most. In addition, I asked Mike to print photos of dispatch consoles, transmitting antennas, or anything else that related to the hobby. I feel that Mike has followed through..." Other comments relate: "I am fascinated and intrigued by what others have. It gives me ideas...", "would like to see more photos each month", regarding the McKay Dymek shortwave equipment in an earlier issue, "This is the first evidence I have that people really spend $1500 for shortwave receivers and $300-$500 for AM broadcast band receivers", "Bandit sends his praise - Meow", and much much more. One of the more interesting and thought out letters came from Mike Perlman (IL-044). Here are the high points of his letter:

"I would say to Mr. Broadbent that he or any other member should not be discouraged from sending his photo in if their set-up only has 1-2 scanners (with or without cats)-different strokes for defferent folks. The person who (in my case) has a multiple scanner set-up may well deal with hundreds of frequencies available in their particular area. In my case, I live in the Chicago Metro area and have a wide range of frequencies to choose from, including many aircraft frequencies from O'Hare Airport and Chicago Center. Mr. Broadbent's point about listening to them all at once is well taken - I don't really. But it is good to have enough capacity available for searching, storing useful frequencies in various services, etc. Someone else, on the other hand, may live in a less busy area and only need one or two scanners to make them happy. [Mike was not the owner of the 'wall of scanners' a few months back] The one point...gave me an idea on how you might alter the format of your presentation - and thus include more people who have a limited number of scanners: ask them to submit how their system fills their listening needs; i.e. what services they cover, interesting unusual features of scanning in their area, etc. If this info was included in the caption, it might add depth to the department and in part answer Mr. Broadbent's criticism."

Sounds OK to me, folks! Continue sending in your station photos, but note anything unusual about your installation, how it fills your needs, interesting highlights about your particular system, etc. And please continue to let me know what you think of the column, good or bad. I'll be looking forward to your station photo!

Railroads

Ken Fitzgerald, Editor

Send information about railroad frequencies and their uses, radio system details, tips for monitoring railroads, explanations of railroad jargon and related information and questions to: Ken Fitzgerald, 121 East Hackberry, Enid, OK 73701.

NO COLUMN THIS MONTH

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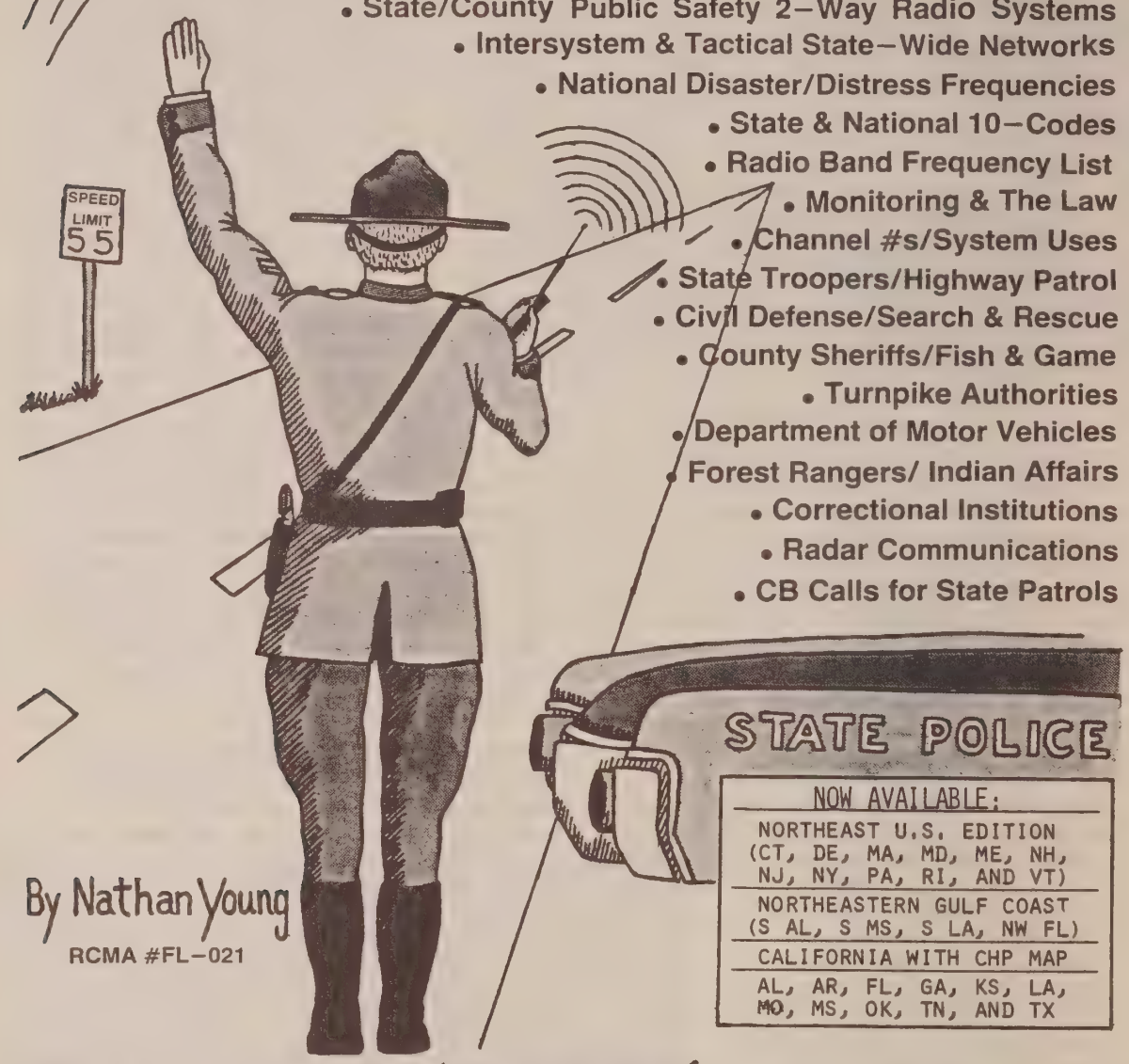
- CB Calls for State Patrols



By Nathan Young
RCMA #FL-021

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AR  017 BUSBY, TERRY;RT 2 BOX 52;CHERRY VALLEY, AR  72324
AZ  040 STEWART, BRUCE;1860 N CAMINO DE LA CIENEGA;TUSCON, AZ  85715
CAAL038 HANSEN, ERIC P;1430 MORTON ST;ALAMEDA, CA  94501
CACC015 RITSCHER, GEORGE;560 SUNNYVIEW DR  414;PINOLE, CA  94564
CAKE015 SWOR, RONALD I;504 LAS POSAS ST;RIDGECREST, CA  93555
CALA453 SONES, WILLIAM ;10602 E. ROSE CIRCLE;CERRITOS, CA  90701
CALA454 BOYER, JOHN C;475 E FOOTHILL BLVD  232;POMONA, CA  91767
CALA455 RREUTLER, DOUGLAS E;1545 N HOBART BLVD  305;HOLLYWOOD, CA  90027
CALA456 HENDRIX;7020 GEORGIA AVE;BELL, CA  90201
CALA457 FRENCH, CHARLES T;27202 CORCUBION;MISSION VIEJO, CA  92692
CALA458 APPLEBAUM, CURTIS H;2501 LAS LUNAS ST;PASADENA, CA  91107
CAOR217 ELVIS, JEFF;5856 CHAPMAN;GARDEN GROVE, CA  92645
CARI041 KROWEL, ELMER A;P.O. BOX 903;SUNNY MEADE, CA  92388
CASB042 THOMPSON, ROBERT D;9519 MARION;MONTCLAIR, CA  91763
CASB043 BRIDGE, JAMES A;P.O. BOX 6124;SAN BERRARDINO, CA  92412
CASC029 PHILLIPSON, BILL * ADDRESS WITHHELD BY REQUEST
CT  058 JONAP, JACK;3641 OLD TOWN RD.;BRIDGEPORT, CT  06606
FL  129 GARWOOD, SAUNDERS;P.O. BOX  17;TALLAHASSEE, FL  32304
FL  130 BEATON, LAURENCE F;627 CRILL AVENUE;PALATKA, FL  32077
FL  131 COCHRAN, MICHAEL;P.O. BOX  650;OLDSMAR, FL  33557
GA  037 OVERSTREET, EARLY L;RFD 4  BOX 234;GLENNVILLE, GA  30427
GA  038 JOWERS, RICHARD H;P.O. BOX  8025;ATLANTA, GA  30306
GA  039 HARRISON, HARVEY G III;P.O. DRAWER C;SANDERSVILLE, GA  31082
IL  202 HANSON, ROBERT A/SCAN;111 E WACKER DR SUITE 1212;CHICAGO, IL  60601
IL  203 PAGGI, WILLIAM J;2441 VERMONT;BLUE ISLAND, IL  60406
IL  204 FUNKENBUSCH, HENRY;2340 N COMMONWEALTH APT 401;CHICAGO, IL  60614
IL  205 GARBIN, DALE A;1718 HIGHLAND AVE;CRESTHILL, IL  60435
IL  206 SIPOS, JEFF;121 MARTIN AVE;MONTGOMERY, IL  60538
IL  207 REAM, MICHAEL B;RFD NO 2;HAMPSHIRE, IL  60140
IN  056 PENZENIK, GREGG * ADDRESS WITHHELD BY REQUEST
KY  031 LEMARIE, ARTIE;401 WEST MAIN ST;BOWLING GREEN, KY  42101
MA  101 CLARK, JAMES;176 HIGH ST  APT 3;BROOKLINE, MA  02146
MD  057 LARSON, BRUCE HMC RAD SAFETY;NAT MEDICAL CENTER;BETHESDA, MD  20814
MI  102 WALLACE, WILLIAM;P.O. BOX 481;NEW ULM, MI  56073
MI  103 ROSS, JACK;646 5TH STREET;WYANDOTTE, MI  48192
MO  064 CLOSSON, CHARLES R;15408 E 49TH STREET;KANSAS CITY, MO  64136
NB  008 JOHNSON, ALLAN;P.O. BOX 68;BELLEVUE, NE  68005
NH  017 MERAS, PETER;P.O. BOX 28;EXETER, NH  03833
NJ  137 MATTSON, ROBERT S;2820 BRIDGE AVE;POINT PLEASANT, NJ  08742
NJ  138 KONDAS, WILLIAM;311 STEWART AVE;KEARNY, NJ  07032
NJ  139 GORBATCH, PAUL JR;1506 STEINER PLACE;ASBURY PARK, NJ  07712
NJ  140 ELLMERS, JUDSON;1A ROLLING RIDGE ROAD;MONTVALE, NJ  07645
NY  186 LE CLAIR, KEVIN;210 CEDARWOOD STREET;ISLIP TERRACE, NY  11752
NY  187 CONNOLLY, PATRICK;32 ARTHUR STREET;BLAUVELT, NY  10913
OH  119 CELCE, ROBERT SR;P.O. BOX 188;NEW PHILADELPHIA, OH  44663
OH  120 DONKER, GEORGE H;1120 E COLLEGE;WESTERVILLE, OH  43081
OH  121 MOORE, RICHARD L;BOX 96  FIRST ST;MINERAL CITY, OH  44656
OH  122 SCHALL, JACK L;P.O. BOX 930;MASSILLON, OH  44648
OR  044 WINKELMAN, JOHN D;13750 SW LATIGO CIRCLE;BEVERTON, OR  97005
OR  045 SMITH, GORDON;711 ROYAL AVE  25;MEDFORD, OR  97501
PA  149 SCHLESSINGER, MARC;2273 MALTESE CT;BENSALEM, PA  10920
PA  150 WERTZ, CHRIS;BOX 294  RD  2;JOHNSTOWN, PA  15904
PA  151 CLEVELAND, RALPH J;P.O. BOX 164;MANSFIELD, PA  16933
PA  152 LEBER, TIMOTHY E.;320 CARPENTER LANE;PHILADELPHIA, PA  19119
SD  006 COMPTON, ELMER F;P.O. BOX 177;ROSEBUD, SD  57570
TX  103 CHAREST, DARREL E;1459 MONTERREY BLVD  293;HURST, TX  76053
TX  104 STEVENSON, GEORGE;8502 MARATHON;UNIVERSAL CITY, TX  78148
WA  033 MARSH, ALFONSO M;E. 516 WEDGEWOOD AVE;SPOKANE, WA  99208
WA  034 BRYANS, MICHAEL P;4119 NE BURTONWOOD CT;VANCOUVER, WA  98662
WI  048 BOETTCHER, TERRELL;P.O. BOX 103;MAUSTON, WI  53948
WI  049 STEIGER, FREDRIC A MD;1908 FAIRHAVEN DR;CEDARBURG, WI  53012
078CAÑA O'BRIEN, B.M.;1845 LARKIN RD;WINDSOR CANADA N88W 4G7
*END
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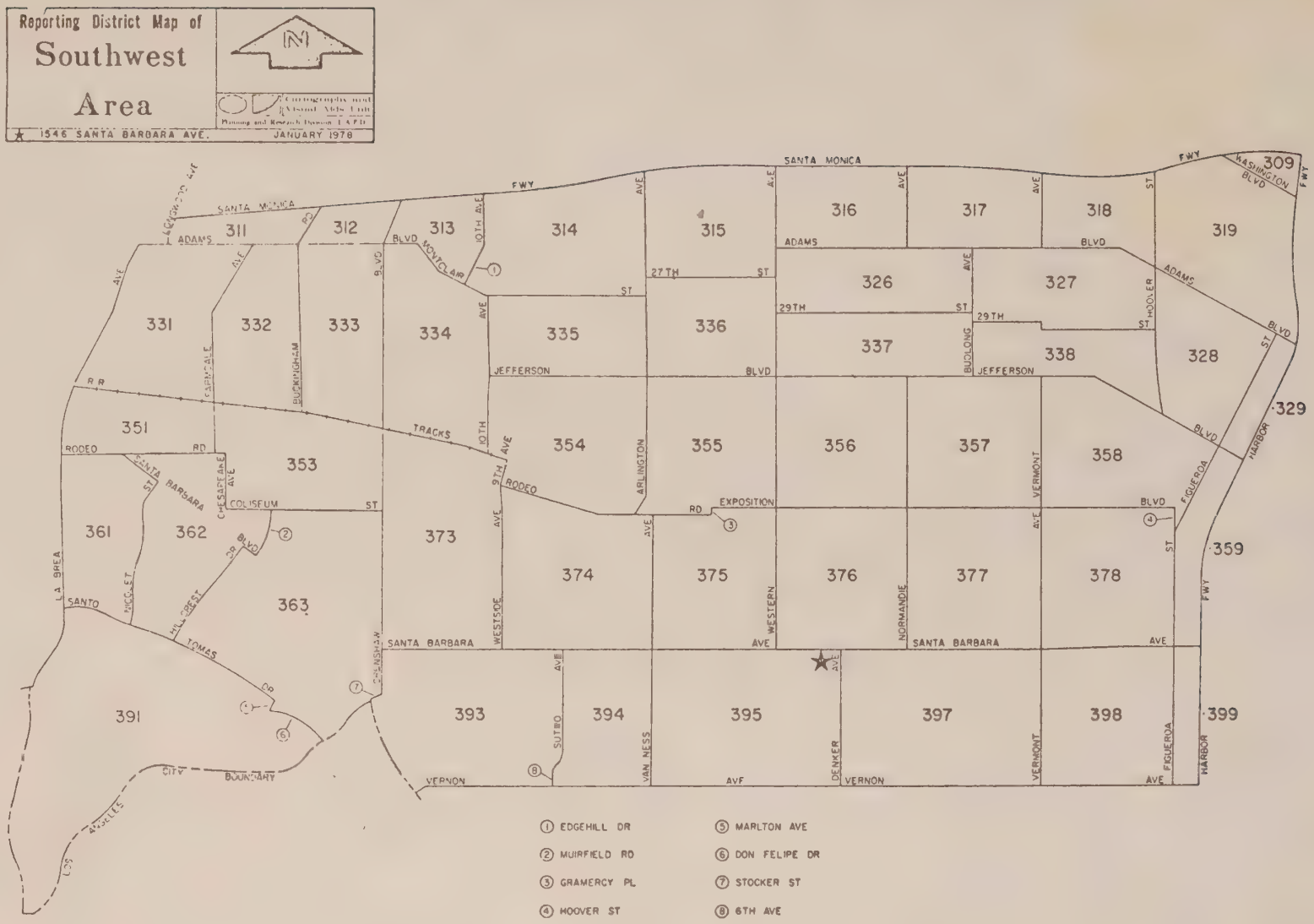
MEMBERSHIP TOTALS:

AL	15	LA	20
AR	11	MA	78
AZ	31	MD	48
CAAL	27	ME	14
CABU	1	MI	71
CACC	13	MN	21
CAED	2	MO	47
CAFR	1	MS	14
CAGL	2	MT	1
CAHU	3	NB	6
CAKE	12	NC	32
CAKI	2	ND	3
CALA	310	NH	11
CALK	2	NJ	111
CAMA	1	NM	6
CAME	8	NV	9
CAMO	3	NY	131
CAMR	3	OH	80
CANA	60	OK	15
CANV	1	OR	33
CAOR	132	PA	119
CAPL	1	PR	2
CAPU	1	RI	7
CARI	29	SC	8
CASA	12	SD	6
CASB	29	TN	14
CASC	19	TX	80
CASD	36	UT	8
CASF	12	VA	45
CASH	3	VT	3
CASJ	6	WA	25
CASK	1	WI	40
CASL	5	WV	9
CASM	15	WY	4
CASN	5	ARUB	1
CASO	4	BERM	2
CASR	11	ENGL	2
CAST	1	ICLD	1
CASZ	1	INDO	1
CATL	1	MEXI	2
CATR	1	NIRE	2
CAVE	18	NORW	1
CAYO	2	NZEL	1
CO	24	SAAR	1
CT	33	SWED	1
DC	5		
DE	8		
FL	92		
FRCP	25		
GA	31		
HI	5		
IA	21		
ID	4		
IL	147		
IN	32		
KS	19		
KY	23		


Reporting District Map of
Southwest
Area
1546 SANTA BARBARA AVE.
JANUARY 1978
SANTA MONICA
FWY
ADAMS
BLVD
MONTCLAIR
10TH AVE
9TH AVE
27TH ST
29TH ST
JEFFERSON
BLVD
RR TRACKS
RODEO RD
SANTA BARBARA
CHESAPEAKE AVE
COLISEUM ST
MUIRFIELD RD
HILLCREST DR
SANTO TOMAS DR
LA BREA
MCCLET
CRENSHAW
WESTSIDE AVE
ARLINGTON
WESTERN AVE
NORMANDIE
VERMONT AVE
BUDLONG
HOOVER ST
FIGUEROA
HARBOR FWY
WASHINGTON BLVD
EXPOSITION RD
SUTRO AVE
VAN NESS AVE
DENKER AVE
VERNON AVE
CITY BOUNDARY
LOS ANGELES
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1 EDGEHILL DR
2 MUIRFIELD RD
3 GRAMERCY PL
4 HOOVER ST
5 MARLTON AVE
6 DON FELIPE DR
7 STOCKER ST
8 6TH AVE

Synthesized Hand-Held Scanner!

Chances are the police, fire and weather emergencies you'll read about in tomorrow's paper are coming through on a scanner right now. All scanners sold by **Communications Electronics** bring the real live excitement of action news into your home or car. With your scanner, you can monitor the exciting two-way radio conversations of police and fire departments, intelligence agencies, mobile telephones, energy/oil exploration crews, drug enforcement agencies and more.

Some scanners can even monitor aircraft transmissions! You can actually hear the news *before* it's news. If you do not own a scanner for yourself, now's the time to buy your new scanner from **Communications Electronics**. Choose the scanner that's right for you, then call our *toll-free* number to place your order with your Master Card or Visa. A scanner is an excellent holiday gift.

We give you excellent service because **CE** distributes more scanners worldwide than *anyone* else. Our warehouse facilities are equipped to process thousands of scanner orders every week. We also export scanners to over 300 countries and military installations. Almost all items are **in stock** for **quick shipment**, so if you're a person who prefers fact to fantasy and who needs to know what's *really* happening around you, order your scanner today from **CE**!

NEW! Bearcat® 350

The Ultimate Synthesized Scanner!

Allow 30-60 days for delivery after receipt of order due to the high demand for this product.

List price $599.95/**CE price $419.00**

7-Band, 50 Channel • Alpha-Numeric • No-crystal scanner • AM Aircraft and Public Service bands. • Priority Channel • AC/DC

Bands: 30-50, 118-136 AM, 144-174, 421-512 MHz.

The new *Bearcat* 350 introduces an incredible breakthrough in synthesized scanning: Alpha-Numeric Display. Push a button—and the Vacuum Fluorescent Display switches from "numeric" to word descriptions of what's being monitored. 50 channels in 5 banks. Plus, Auto & Manual Search, Search Direction, Limit & Count. Direct Channel Access. Selective Scan Delay. Dual Scan Speeds. Automatic Lockout. Automatic Squelch. Non-Volatile Memory. Reserve your *Bearcat* 350 today!

Bearcat® 300

List price $549.95/**CE price $339.00**

7-Band, 50 Channel • Service Search • No-crystal scanner • AM Aircraft and Public Service bands. • Priority Channel • AC/DC

Bands: 32-50, 118-136 AM, 144-174, 421-512 MHz.

The *Bearcat* 300 is the most advanced automatic scanning radio that has ever been offered to the public. The *Bearcat* 300 uses a bright green fluorescent digital display, so it's ideal for mobile applications. The *Bearcat* 300 now has these added features: Service Search, Display Intensity Control, Hold Search and Resume Search keys, Separate Band keys to permit lock-in/lock-out of any band for more efficient service search.

NEW! Bearcat® 350

Bearcat® 250

List price $429.95/**CE price $269.00**

6-Band, 50 Channel • Crystalless • Searches Stores • Recalls • Digital clock • AC/DC Priority Channel • Delay • Count Feature

Frequency range 32-50, 146-174, 420-512 MHz.

The *Bearcat* 250 performs any scanning function you could possibly want. With push button ease you can program up to 50 channels for automatic monitoring. Push another button and search for new frequencies. There are no crystals to limit what you want to hear. A special search feature of the *Bearcat* 250 actually stores 64 frequencies and recalls them, one at a time. Overseas customers should order the **250FB** at $379.00 each. This model has 220 V AC/12 V DC power supply and 66-88 MHz low band coverage.

NEW! Bearcat® 20/20

List price $449.95/**CE price $279.00**

7-Band, 40 Channel • Crystalless • Searches AM Aircraft and Public Service bands • AC/DC Priority Channel • Direct Channel Access • Delay

Frequency range 32-50, 118-136 AM, 144-174, 420-512 MHz.

The *Bearcat* 20/20 automatic scanning radio replaces the *Bearcat* 220 and monitors 40 frequencies from 7 bands, including aircraft. A two-position switch, located on the front panel, allows monitoring of 20 channels at a time.

Bearcat® 210XL

List price $349.95/**CE price $219.00**

6-Band, 18 Channel • Crystalless • AC/DC

Frequency range: 32-50, 144-174, 421-512 MHz.

The *Bearcat* 210XL scanning radio is the second generation scanner that replaces the popular *Bearcat* 210 and 211. It has almost twice the scanning capacity of the *Bearcat* 210 with 18 channels plus dual scanning speeds and a bright green fluorescent display. Automatic search finds new frequencies. Features scan delay, single antenna, patented track tuning and more!

Bearcat® 160

List price $299.95/**CE price $184.00**

5-Band, 16 Channel • AC only • Priority Dual Scan Speeds • Direct Channel Access

Frequency range: 32-50, 144-174, 440-512 MHz.

Would you believe...the *Bearcat* 160 is the least expensive *Bearcat* crystalless scanner.

This scanner presents a new dimension in scanning form and function. Look at the smooth keyboard. No buttons to punch. No knobs to turn. Instead, finger-tip pads provide control of *all* scanning operations, including On/Off, Volume and Squelch. Of course the *Bearcat* 160 incorporates other advanced *Bearcat* features such as Priority, Direct Channel Access, Dual Scan Speeds, Lockout, Scan Delay and more.

NEW! Bearcat® 100

The first no-crystal programmable handheld scanner.

Allow 60-120 days for delivery after receipt of order due to the high demand for this product.

List price $449.95/**CE price $299.00**

8-Band, 16 Channel • Liquid Crystal Display Search • Limit • Hold • Lockout • AC/DC

Frequency range: 30-50, 138-174, 406-512 MHz.

The world's first no-crystal handheld scanner has compressed into a 3" x 7" x 1¼" case more scanning power than is found in many base or mobile scanners. The *Bearcat* 100 has a full 16 channels with frequency coverage that includes all public service bands (Low, High, UHF and "T" bands), the 2-Meter and 70 cm. Amateur bands, *plus* Military and Federal Government frequencies. It has chrome-plated keys for functions that are user controlled, such as lockout, manual and automatic scan. Even search is provided, both manual and automatic. Wow...what a scanner!

The *Bearcat* 100 produces audio power output of 300 milliwatts, is track-tuned and has selectivity of better than 50 dB down and sensitivity of 0.6 microvolts on VHF and 1.0 microvolts on UHF. Power consumption is kept extremely low by using a liquid crystal display and exclusive low power integrated circuits.

Included in our low **CE** price is a sturdy carrying case, earphone, battery charger/AC adapter, six AA ni-cad batteries and flexible antenna. For earliest delivery from **CE**, reserve your *Bearcat* 100 today.

Bearcat® 5

List price $134.95/**CE price $94.00**

4-Band, 8 Crystal Channels • Lockout • AC only

Frequency range: 33-50, 146-174, 450-508 MHz.

The *Bearcat* 5 is a value-packed crystal scanner built for the scanning professional — at a price the first-time buyer can afford. Individual lockout switches. Order one crystal certificate for each channel.

Bearcat® Four-Six ThinScan™

List price $189.95/**CE price $124.00**

Frequency range: 33-47, 152-164, 450-508 MHz.

The incredible, *Bearcat* Four-Six Thin Scan™ is like having an information center in your pocket. This four band, 6 channel crystal controlled scanner has patented Track Tuning on UHF. Scan Delay and Channel Lockout. Measures 2¾ x 6¼ x 1." Includes rubber ducky antenna. Order crystal certificate for each channel. Made in Japan.

TEST ANY SCANNER

Test any scanner purchased from **Communications Electronics™** for 31 days before you decide to keep it. If for any reason you are not completely satisfied, return it in original condition with all parts in 31 days, for a prompt refund (less shipping/handling charges and rebate credits).

Fanon Slimline 6-HLU

List price $169.95/**CE price $109.00**

Low cost 6-channel, 4-band scanner!

The *Fanon* Slimline 6-HLU gives you six channels of crystal controlled excitement. Unique Automatic Peak Tuning Circuit adjusts the receiver front end for maximum sensitivity across the entire UHF band. Individual channel lockout switches. Frequency range 30-50, 146-175 and 450-512 MHz. Size 2¾ x6¼ x 1." Includes rubber ducky antenna. Order crystal certificates for each channel. Made in Japan.

Fanon Slimline 6-HL

List price $149.95/**CE price $99.00**

6-Channel performance at 4-channel cost!

Frequency range: 30-50, 146-175 MHz.

If you *don't* need the UHF band, get this model and save money. Same high performance and features as the model HLU without the UHF band. Order crystal certificates for each channel. Made in Japan.

OTHER SCANNERS & ACCESSORIES

NEW! **Regency®‡ D810 Scanner**	$319.00
NEW! **Regency® D300 Scanner**	$219.00
NEW! **Regency® D100 Scanner**	$169.00
NEW! **Regency® H604 Scanner**	$129.00
Regency® M400 Scanner	$259.00
Regency® M100 Scanner	$199.00
Regency® R1040 Scanner	$149.00
SCMA-6 Fanon Mobile Adapter/Battery Charger	$49.00
CHB-6 Fanon AC Adapter/Battery Charger	$15.00
CAT-6 Fanon carrying case with belt clip	$15.00
AUC-3 Fanon auto lighter adapter/Battery Charger	$15.00
PSK-6 Base Power Supply/Bracket for SCMA-6	$20.00
SP50 *Bearcat* AC Adapter	$9.00
SP51 *Bearcat* Battery Charger	$9.00
SP58 *Bearcat* 4-6 ThinScan™ carrying case	$12.00
MA506 *Regency* carrying case for H604	$15.00
FB-E Frequency Directory for Eastern U.S.A.	$12.00
FB-W Frequency Directory for Western U.S.A.	$12.00
FFD Federal Frequency Directory for U.S.A.	$12.00
TSG "Top Secret" Registry of U.S. Government Freq.	$10.00
B-4 1.2 V AAA Ni-Cad batteries (set of four)	$9.00
A-135cc Crystal certificate	$3.00

Add $3.00 shipping for all *accessories* ordered at the same time.

INCREASED PERFORMANCE ANTENNAS

If you want the utmost in performance from your scanner, it is essential that you use an external antenna. We have six base and mobile antennas specifically designed for receiving all bands. Order **#A60** is a magnet mount mobile antenna. Order **#A61** is a gutter clip mobile antenna. Order **#A62** is a trunk-lip mobile antenna. Order **#A63** is a ¾ inch hole mount. Order **#A64** is a ⅜ inch snap-in mount, and **#A70** is an all band base station antenna. All antennas are $35.00 and $3.00 for UPS shipping in the continental United States.

BUY WITH CONFIDENCE

To ***get the fastest delivery from CE*** of any scanner, send or phone your order directly to our Scanner Distribution Center.™ Be sure to calculate your price using the CE prices in this ad. Michigan residents please add 4% sales tax. Written purchase orders are accepted from approved government agencies and most well rated firms at a 10% surcharge for net 10 billing. All sales are subject to availability, acceptance and verification. All sales on accessories are final. Prices, terms and specifications are subject to change without notice. Out of stock items will be placed on backorder automatically unless CE is instructed differently. Most products that we sell have a manufacturer's warranty. Free copies of warranties on these products are available prior to purchase by writing to CE. International orders are invited with a $20.00 surcharge for special handling *in addition* to shipping charges. All shipments are F.O.B. Ann Arbor, Michigan. No COD's please. Non-certified and foreign checks require bank clearance. Minimum order $35.00.

Mail orders to: **Communications Electronics,™** Box 1002, Ann Arbor, Michigan 48106 U.S.A. Add $7.00 per scanner or phone product for U.P.S. *ground* shipping and handling, or $14.00 for faster U.P.S. *air* shipping to some locations. If you have a Visa or Master Card, you may call anytime and place a credit card order. **Order toll free** in the U.S.A, Dial 800-521-4414. If you are outside the U.S. or in Michigan, dial 313-994-4444. **Dealer inquiries invited.** Order without obligation today!

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RATES FOR RADIO PAGE

1. Tone Alert: $17 per month, local coverage
   $19 per month, wide-area coverage
   Unlimited direct dial calls
2. Digital Display: $26 per month, local coverage
   $29 per month, wide area coverage
   Unlimited direct local calls
3. Tone & Voice: $31 per month, local coverage
   $33 per month, wide-area coverage
   Includes 100 messages, then 20¢ per message over the 100
4. Baby Beepers: Same as Tone Alert
   One month service
   No set up fee

5. Operator Assisted calls: A service provided at an additional charge if you don't want someone to have your pager number, and prefer to have all calls go through our operator.

There is a $10 set up fee for all new accounts.

Pagers can be equipped with an additional source telephone number (Tacoma, Seattle, Everett, Olympia or (Bremerton) for $3 more per month. Group call available for $3 per month.

Tone Alert and Digital Display can be equipped with silent signal and memory at no extra charge.

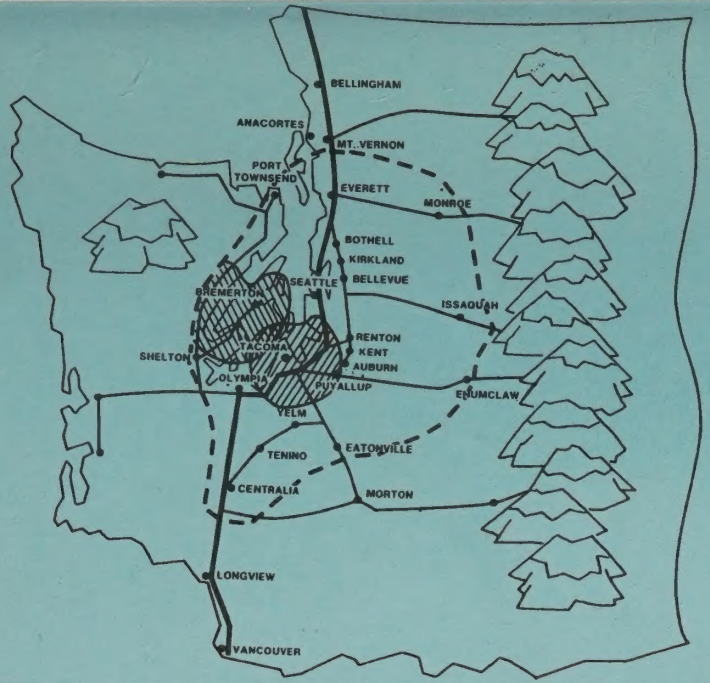
Insurance and free batteries are included in the monthly fee.

No deposit or time contract commitments are required.

Unconditional Guarantee: Exchange for any malfunctioning or lost pager.

Discounts for quantities of 5, 10, 20, & 35.

A map of the serviceable area is on the back.



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TACOMA LOCAL CHANNELS

BREMERTON LOCAL CHANNELS

WIDE AREA

APPROXIMATE SERVICE CONTOURS

Certain conditions such as terrain or building structures may affect reception.

WITH THIS EDITION WE ARE

TERMINATING OUR ADVERTIZING

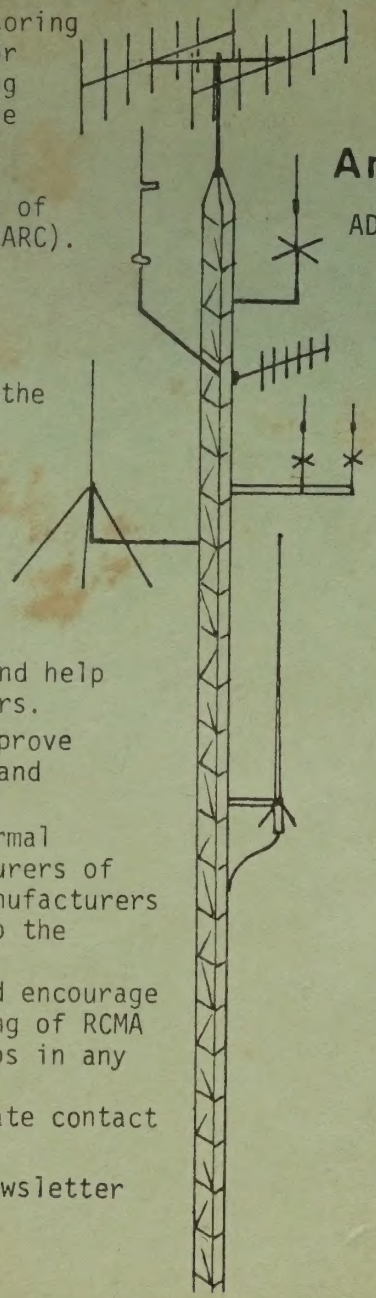
FOR A PERIOD OF TIME

MORE NEXT MONTH ON THIS ISSUE

The Radio Communications Monitoring Association is a radio club for persons interested in listening to two-way communications above 30 MHz as a hobby. RCMA was founded in May 1975 and is a Full Member of the Association of North American Radio Clubs (ANARC).

The goals of RCMA are:

1) To provide a fraternity for those who seriously pursue the hobby of monitor radio listening.
2) To try to be knowledgeable about two-way radio systems and operations.
3) To promote an understanding of the legal and ethical uses of monitor receivers.
4) To share information with and help other monitor radio listeners.
5) To try to understand and improve receivers, antenna systems and related equipment.
6) To offer suggestions and formal recommendations to manufacturers of monitor receivers and to manufacturers of other products related to the hobby.
7) To offer suggestions for and encourage the organizing and conducting of RCMA meetings and tours for groups in any geographic area.
8) To encourage and to facilitate contact between members.
9) To publish a regular club newsletter devoted to the hobby.



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